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(54) Title: THROMBIN OR FACTOR XA INHIBITORS (57) Abstract					

This invention relates generally to inhibitors of trypsin-like serine protease enzymes, especially factor Xa or thrombin, pharmaceutical compositions containing the same, and methods of using the same as anticoagulant agents for treatment and prevention of thromboembolic disorders.

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TITLE Thrombin or Factor Xa Inhibitors

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FIELD OF THE INVENTION

This invention relates generally to inhibitors of trypsin-like serine protease enzymes, especially factor Xa or thrombin, pharmaceutical compositions containing the same, and methods of using the same as anticoagulant agents for treatment and prevention of thromboembolic disorders.

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BACKGROUND OF THE INVENTION

Activated factor Xa, whose major practical role is the generation of thrombin by the limited proteolysis of prothrombin, holds a central position that links the intrinsic and extrinsic activation mechanisms in the final common pathway of blood coagulation. The generation of thrombin, the final serine protease in the pathway to generate a fibrin clot, from its precursor is amplified by formation of prothrombinase complex (factor Xa, factor in the pathway). Since it is calculated that one molecule of factor Xa can always and considered to the factor IXa-factor VIII Complex: Probable role of the complex in the amplification of blood coagulation. Thromb. Res. 1979, 15, 617-629), inhibition of factor Xa may be more efficient than inactivation of thrombin in interrupting the blood coagulation system.

Therefore, efficacious and specific inhibitors of factor Xa, thrombin, or both are needed as potentially valuable therapeutic agents for the treatment of thromboembolic disorders. It is thus desirable to discover new factor Xa, thrombin, or both inhibitors.

SUMMARY OF THE INVENTION

Accordingly, one object of the present invention is to provide novel nitrogen containing aromatic heterocycles, with ortho-substituted P1 groups, which are useful as factor Xa inhibitors or pharmaceutically acceptable salts or prodrugs thereof.

It is another object of the present invention to provide pharmaceutical compositions comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of at least one of the compounds of the present invention or a pharmaceutically acceptable salt or prodrug form thereof.

It is another object of the present invention to provide a method for treating thromboembolic disorders comprising administering to a host in need of such treatment a therapeutically effective amount of at least one of the compounds of the present invention or a pharmaceutically acceptable salt or prodrug form thereof.

It is another object of the present invention to provide novel compounds for use in therapy.

It is another object of the present invention to provide the use of novel compounds for the manufacture of a medicament for the treatment of thrombosis or a disease mediated by factor Xa.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[1] Thus, in an embodiment, the present invention provides a novel compound selected from the group:

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ring D is selected from -(CH₂)₃-, -CH₂CH=CH-, -CH₂N=CH-, and a 5 membered aromatic system containing from 0-2 heteroatoms selected from the group N, O, and S, provided that from 0-1 O and S atoms are present;

ring D is substituted with 0-2 R;

E is selected from phenyl, pyridyl, pyrimidyl, pyrazinyl, and pyridazinyl, substituted with 0-1 R;

R is selected from Cl, F, Br, I, OH, C_{1-3} alkoxy, NH_2 , $NH(C_{1-3}$ alkyl), $N(C_{1-3}$ alkyl)₂, CH_2NH_2 , $CH_2NH(C_{1-3}$ alkyl), $CH_2N(C_{1-3}$ alkyl)₂, $CH_2CH_2NH_2$, $CH_2CH_2NH(C_{1-3}$ alkyl). and $CH_2CH_2N(C_{1-3}$ alkyl)₂;

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M is selected from the group:

J is O or S;

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Ja is NH or NR la;

Z is selected from $(CR^8R^9)_{I-4}$, $(CR^8R^9)_rO(CR^8R^9)_r$, $(CR^8R^9)_rNR^3(CR^8R^9)_r$, $(CR^8R^9)_rC(O)(CR^8R^9)_r$, $(CR^8R^9)_rC(O)(CR^8R^9)_r$, $(CR^8R^9)_rOC(O)(CR^8R^9)_r$, $(CR^8R^9)_rC(O)NR^3(CR^8R^9)_r$, $(CR^8R^9)_rNR^3C(O)(CR^8R^9)_r$,

(CR⁸R⁹)_rOC(O)O(CR⁸R⁹)_r, (CH₂)_rOC(O)NR³(CR⁸R⁹)_r, (CR⁸R⁹)_rNR³C(O)O(CR⁸R⁹)_r, (CH₂)_rNR³C(O)NR³(CR⁸R⁹)_r, (CR⁸R⁹)_rS(O)_p(CR⁸R⁹)_r, (CCR⁸R⁹)_rSO₂NR³(CR⁸R⁹)_r, (CR⁸R⁹)_rNR³SO₂(CR⁸R⁹)_r, and (CR⁸R⁹)_rNR³SO₂NR³(CR⁸R⁹)_r, provided that Z does not form a N-N, N-O, N-S, NCH₂N, NCH₂O, or NCH₂S bond with the groups to which Z is attached;

 R^{1a} is selected from H, -(CH₂)_r-R¹', -CH=CH-R¹', NHCH₂R¹", OCH₂R¹", SCH₂R¹", NH(CH₂)₂(CH₂)_tR¹', O(CH₂)₂(CH₂)_tR¹', and S(CH₂)₂(CH₂)_tR¹';

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- R1' is selected from H, C₁₋₃ alkyl, F, Cl, Br, I, -CN, -CHO, (CF₂)_rCF₃, (CH₂)_rOR², NR²R^{2a}, C(O)R^{2c}, OC(O)R², (CF₂)_rCO₂R^{2c}, S(O)_pR^{2b}, NR²(CH₂)_rOR², C(=NR^{2c})NR²R^{2a}, NR²C(O)R^{2b}, NR²C(O)NHR^{2b}, NR²C(O)₂R^{2a}, OC(O)NR²aR^{2b}, C(O)NR²R^{2a}, C(O)NR²(CH₂)_rOR², SO₂NR²R^{2a}, NR²SO₂R^{2b}, C₃₋₆ carbocyclic residue substituted with 0-2 R⁴, and 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R⁴;
- R^{1} is selected from H, CH(CH₂OR²)₂, C(O)R^{2c}, C(O)NR²R^{2a}, S(O)R^{2b}, S(O)₂R^{2b}, and SO₂NR²R^{2a};
 - R², at each occurrence, is selected from H, CF₃, C₁₋₆ alkyl, benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};
- R^{2a}, at each occurrence, is selected from H, CF₃, C₁₋₆ alkyl, benzyl, C₃₋₆ cycloalkylmethyl substituted with 0-2 R^{4b}, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};
- R^{2b}, at each occurrence, is selected from CF₃, C₁₋₄ alkoxy, C₁₋₆ alkyl, benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};

R^{2c}, at each occurrence, is selected from CF₃, OH, C₁₋₄ alkoxy, C₁₋₆ alkyl. benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};

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- alternatively, R² and R^{2a} combine to form a 5 or 6 membered saturated, partially saturated or unsaturated ring substituted with 0-2 R^{4b} which contains from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- alternatively, R² and R^{2a}, together with the atom to which they are attached, combine to form a 5 or 6 membered saturated, partially saturated or unsaturated ring substituted with 0-2 R^{4b} and containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- 15 R³, at each occurrence, is selected from H, C₁₋₄ alkyl, and phenyl;
 - R^{3a}, at each occurrence, is selected from H, C₁₋₄ alkyl, and phenyl;
 - R3b, at each occurrence, is selected from H, C1-4 alkyl, and phenyl;

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 R^{3c} , at each occurrence, is selected from C_{1-4} alkyl, and phenyl;

A is selected from:

C₃₋₁₀ carbocyclic residue substituted with 0-2 R⁴, and

5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N. O, and S substituted with 0-2 R⁴;

B is selected from:

X-Y, NR^2R^{2a} , $C(=NR^2)NR^2R^{2a}$, $NR^2C(=NR^2)NR^2R^{2a}$,

C₃₋₁₀ carbocyclic residue substituted with 0-2 R^{4a}, and

5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a};

X is selected from C_{1-4} alkylene, $-CR^2(CR^2R^{2b})(CH_2)_{t^-}$, -C(O)-, $-C(=NR^{1"})$ -,

- -CR²(NR^{1*}R²)-, -CR²(OR²)-, -CR²(SR²)-, -C(O)CR²R^{2a}-, -CR²R^{2a}C(O), -S(O)_p-,
- $-S(O)_p CR^2R^{2a}-, -CR^2R^{2a}S(O)_{p^+}, -S(O)_2NR^2-, -NR^2S(O)_2-, -NR^2S(O)_2CR^2R^{2a}-, -NR^$
- $-CR^2R^{2a}S(O)_2NR^2-, -NR^2S(O)_2NR^2-, -C(O)NR^2-, -NR^2C(O)-, \\$
- $-C(O)NR^2CR^2R^{2a}$, $-NR^2C(O)CR^2R^{2a}$. $-CR^2R^{2a}C(O)NR^2$ -, $-CR^2R^{2a}NR^2C(O)$ -,

-NR²C(O)O-, -OC(O)NR²-, -NR²C(O)NR²-, -NR²-, -NR²CR²R²a-, -CR²R²aNR²-, O, -CR²R²aO-, and -OCR²R²a-;

Y is selected from:

- (CH₂)_rNR²R^{2a}, provided that X-Y do not form a N-N, O-N, or S-N bond,
 C₃₋₁₀ carbocyclic residue substituted with 0-2 R^{4a}, and
 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a};
- 10 R⁴, at each occurrence, is selected from H, =O, (CH₂)_rOR², F, Cl, Br, I, C₁₋₄ alkyl, -CN, NO₂, (CH₂)_rNR²R^{2a}, (CH₂)_rC(O)R^{2c}, NR²C(O)R^{2b}, C(O)NR²R^{2a}, NR²C(O)NR²R^{2a}, C(=NR²)NR²R^{2a}, C(=NS(O)₂R⁵)NR²R^{2a}, NHC(=NR²)NR²R^{2a}, C(O)NHC(=NR²)NR²R^{2a}, SO₂NR²R^{2a}, NR²SO₂NR²R^{2a}, NR²SO₂Cl₁₋₄ alkyl, NR²SO₂R⁵, S(O)_pR⁵, (CF₂)_rCF₃, NHCH₂R¹", OCH₂R¹", SCH₂R¹", N(CH₂)₂(CH₂)_tR¹', O(CH₂)₂(CH₂)_tR¹', and S(CH₂)₂(CH₂)_tR¹',
- heteroatoms selected from the group consisting of N, O, and S;
- R^{4a}, at each occurrence, is selected from H, =O, (CH₂)_rOR², (CH₂)_r-F, (CH₂)_r-Br, (CH₂)_r-Cl, Cl, Br, F, I, C₁₋₄ alkyl, -CN, NO₂, (CH₂)_rNR²R^{2a}, (CH₂)_rC(O)R^{2c},

 NR²C(O)R^{2b}, C(O)NR²R^{2a}, C(O)NH(CH₂)₂NR²R^{2a}, NR²C(O)NR²R^{2a},

 C(=NR²)NR²R^{2a}, NHC(=NR²)NR²R^{2a}, SO₂NR²R^{2a}, NR²SO₂NR²R^{2a},

 NR²SO₂-C₁₋₄ alkyl, C(O)NHSO₂-C₁₋₄ alkyl, NR²SO₂R⁵, S(O)_pR⁵, and

 (CF₂)_rCF₃;
 - alternatively, one R^{4a} is a 5-6 membered aromatic heterocycle containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-1 R⁵:
 - R^{4b}, at each occurrence, is selected from H, =O, (CH₂)_rOR³, F, Cl, Br, I, C₁₋₄ alkyl, -CN, NO₂, (CH₂)_rNR³R^{3a}, (CH₂)_rC(O)R³, (CH₂)_rC(O)OR^{3c}, NR³C(O)R^{3a}, C(O)NR³R^{3a}, NR³C(O)NR³R^{3a}, C(=NR³)NR³R^{3a}, NR³C(=NR³)NR³R^{3a}, SO₂NR³R^{3a}, NR³SO₂NR³R^{3a}, NR³SO₂-C₁₋₄ alkyl, NR³SO₂CF₃, NR³SO₂-phenyl, S(O)_pCF₃, S(O)_p-C₁₋₄ alkyl, S(O)_p-phenyl, and (CF₂)_rCF₃;
 - R^5 , at each occurrence, is selected from CF₃, C_{1-6} alkyl, phenyl substituted with 0-2 R^6 , and benzyl substituted with 0-2 R^6 ;

 R^6 , at each occurrence, is selected from H, OH, $(CH_2)_rOR^2$, halo, C_{1-4} alkyl, CN, NO_2 , $(CH_2)_rNR^2R^{2a}$, $(CH_2)_rC(O)R^{2b}$, $NR^2C(O)R^{2b}$, $NR^2C(O)NR^2R^{2a}$, $C(=NH)NH_2$, $NHC(=NH)NH_2$, $SO_2NR^2R^{2a}$, $NR^2SO_2NR^2R^{2a}$, and $NR^2SO_2C_{1-4}$ alkyl;

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R⁷, at each occurrence, is selected from H, OH, C₁₋₆ alkyl, C₁₋₆ alkylcarbonyl, C₁₋₆ alkoxy, C₁₋₄ alkoxycarbonyl, (CH₂)_n-phenyl, C₆₋₁₀ aryloxy, C₆₋₁₀ aryloxycarbonyl, C₆₋₁₀ arylmethylcarbonyl, C₁₋₄ alkylcarbonyloxy C₁₋₄ alkoxycarbonyl, C₁₋₆ alkylaminocarbonyl, phenylaminocarbonyl, and phenyl C₁₋₄ alkoxycarbonyl;

R⁸, at each occurrence, is selected from H, C₁₋₆ alkyl and (CH₂)_n-phenyl;

alternatively, R⁷ and R⁸ combine to form a 5 or 6 membered saturated, ring which

contains from 0-1 additional heteroatoms selected from the group consisting of N,
O, and S;

and resident both or setting

R⁹, at each occurrence, is selected from H, C₁₋₆ alkyl and (CH₂)_n-phenyl;

20 n, at each occurrence, is selected from 0, 1, 2, and 3;

m, at each occurrence, is selected from 0, 1, and 2;

p, at each occurrence, is selected from 0, 1, and 2;

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r, at each occurrence, is selected from 0, 1, 2, and 3;

s, at each occurrence, is selected from 0, 1, and 2; and,

t, at each occurrence, is selected from 0, 1, 2, and 3.

[2] In another embodiment, the present invention provides a novel compound selected from the group:

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wherein, M is selected from the group:

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R is selected from H, Cl, F, Br, I, (CH₂)_tOR³, C₁₋₄ alkyl, OCF₃, CF₃, C(O)NR⁷R⁸, and (CR⁸R⁹)_tNR⁷R⁸;

Z is selected from CH₂O, OCH₂, CH₂NH, NHCH₂, C(O), CH₂C(O), C(O)CH₂, NHC(O), C(O)NH, CH₂S(O)₂, S(O)₂(CH₂), SO₂NH, and NHSO₂, provided that Z does not form a N-N, N-O, NCH₂N, or NCH₂O bond with ring M or group A;

A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R⁴;

phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, benzofuranyl, benzothiofuranyl, indolyl, benzimidazolyl, benzoxazolyl, benzimidazolyl, and isoindazolyl;

B is selected from: H, Y, and X-Y;

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 $\label{eq:Xisselected} X \ is \ selected \ from \ C_{1-4} \ alkylene, \ -C(O)-, \ -C(=NR)-, \ -CR^2(NR^2R^{2a})-, \ -C(O)CR^2R^{2a}-, \ -CR^2R^{2a}C(O), \ -C(O)NR^2-, \ -NR^2C(O)-, \ -C(O)NR^2CR^2R^{2a}-, \ -NR^2C(O)CR^2R^{2a}-, \ -NR^2C(O)CR^$

-CR²R^{2a}C(O)NR²-, -CR²R^{2a}NR²C(O)-, -NR²C(O)NR²-, -NR²-, -NR²CR²R^{2a}-, -CR²R^{2a}NR²-, O, -CR²R^{2a}O-, and -OCR²R^{2a}-;

Y is NR²R^{2a} or CH₂NR²R^{2a}, provided that X-Y do not form a N-N or O-N bond;

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alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a};

cylcopropyl, cyclopentyl, cyclohexyl, phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, isoxazolinyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, benzofuranyl, benzothiofuranyl, indolyl, benzimidazolyl, benzothiazolyl, indazolyl, benzisoxazolyl, benzisothiazolyl, and isoindazolyl;

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alternatively, Y is selected from the following bicyclic heteroaryl ring systems:

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K is selected from O, S, NH, and N.

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[3] In another embodiment, the present invention provides a novel compound selected from the group:

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M is selected from the group:

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Z is C(O)CH2 and CONH, provided that Z does not form a N-N bond with group A;

A is selected from phenyl, pyridyl, and pyrimidyl, and is substituted with 0-2 R4; and,

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B is selected from Y, X-Y, phenyl, pyrrolidino, morpholino, 1,2,3-triazolyl, and imidazolyl, and is substituted with 0-1 R^{4a};

B is selected from: Y and X-Y;

X is selected from CH₂, -C(O)-, and O;

Y is NR²R^{2a} or CH₂NR²R^{2a}, provided that X-Y does not form an O-N bond;

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alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a};

phenyl, piperazinyl, pyridyl, pyrimidyl, morpholinyl, pyrrolidinyl, imidazolyl, and 1,2,3-triazolyl;

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R², at each occurrence, is selected from H, CF₃, CH₃, benzyl, and phenyl;

R^{2a}, at each occurrence, is selected from H, CF₃, CH₃, CH(CH₃)₂, cyclopropylmethyl, benzyl, and phenyl;

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alternatively, R² and R^{2a} combine to form a ring system substituted with 0-2 R^{4b}, the ring system being selected from pyrrolidinyl, piperazinyl and morpholino;

R⁴, at each occurrence, is selected from OH, (CH₂)_rOR², Cl, F, C₁₋₄ alkyl, (CH₂)_rNR²R^{2a}, and (CF₂)_rCF₃;

 R^{4a} is selected from Cl, F, C₁₋₄ alkyl, CF₃, (CH₂)_rNR²R^{2a}, S(O)_pR⁵, SO₂NR²R^{2a}, and 1-CF₃-tetrazol-2-yl;

R^{4b}, at each occurrence, is selected from OH, Cl, F, CH₃, and CF₃;

R⁵, at each occurrence, is selected from CF₃, C₁₋₆ alkyl, phenyl, and benzyl;

R⁷, at each occurrence, is selected from H, CH₃, and CH₂CH₃; and,

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R8, at each occurrence, is selected from H and CH3.

[4] In another embodiment, the present invention provides a novel compound wherein:

M is selected from the group:

J is N;

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5 R^{1a} is absent or is -(CH₂)_r- R^{1} ';

R1' is selected from H,-C₁₋₃ alkyl, F, Cl, -CN, CF₃, (CH₂)_rOR², NR²R^{2a}, C(O)R^{2c}, OC(O)R², S(O)_pR^{2b}, NR²C(O)R^{2b}, C(O)NR²R^{2a}, SO₂NR²R^{2a}, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4a}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a};

A is selected from the group: phenyl, 2-pyridyl, 3-pyridyl, 2-pyrimidyl, 2-Cl-phenyl, 3-Cl-phenyl, 2-F-phenyl, 3-F-phenyl, 2-methylphenyl, 2-aminophenyl, and 2-methoxyphenyl; and,

B is selected from the group: 2-CF3-phenyl, 2-(aminosulfonyl)phenyl, 2(methylaminosulfonyl)phenyl, 2-(dimethylaminosulfonyl)phenyl, 1pyrrolidinocarbonyl, 2-(methylsulfonyl)phenyl, 2-(N,Ndimethylaminomethyl)phenyl, 2-(isopropylaminomethyl)phenyl, 2(cyclopropylaminomethyl)phenyl, 2-(N-pyrrolidinylmethyl)phenyl, 2-(3-hydroxyN-pyrrolidinylmethyl)phenyl, 4-morpholino, 2-(1'-CF3-tetrazol-2-yl)phenyl, 4morpholinocarbonyl, 1-methyl-2-imidazolyl, 2-methyl-1-imidazolyl, 5-methyl-1imidazolyl, 2-(N,N-dimethylaminomethyl)imidazolyl, 2-methylsulfonyl-1imidazolyl and, 5-methyl-1,2,3-triazolyl.

In another embodiment, the present invention provides novel pharmaceutical compositions, comprising: a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of present invention or a pharmaceutically acceptable salt form thereof.

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In another embodiment, the present invention provides a novel method for treating or preventing a thromboembolic disorder, comprising: administering to a patient in need thereof a therapeutically effective amount of a compound of the present invention or a pharmaceutically acceptable salt form thereof.

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In another embodiment, the present invention provides novel compounds for use in therapy.

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In another embodiment, the present invention provides the use of novel compounds for the manufacture of a medicament for the treatment of thrombosis or a disease mediated by factor Xa.

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DEFINITIONS

The compounds herein described may have asymmetric centers. Compounds of the present invention containing an asymmetrically substituted atom may be isolated in optically active or racemic forms. It is well known in the art how to prepare optically active forms, such as by resolution of racemic forms or by synthesis from optically active starting materials. Many geometric isomers of olefins, C=N double bonds, and the like can also be present in the compounds described herein, and all such stable isomers are contemplated in the present invention. Cis and trans geometric isomers of the compounds of the present invention are described and may be isolated as a mixture of isomers or as separated isomeric forms. All chiral, diastereomeric, racernic forms and all geometric isomeric forms of a structure are intended, unless the specific stereochemistry or isomeric form is specifically indicated. All processes used to prepare compounds of the present invention and intermediates made therein are considered to be part of the present invention.

"Substituted" is intended to indicate that one or more hydrogens on the atom 30 indicated in the expression using "substituted" is replaced with a selection from the indicated group(s), provided that the indicated atom's normal valency is not exceeded, and that the substitution results in a stable compound. When a substituent is keto (i.e., =0)

group, then 2 hydrogens on the atom are replaced.

The present invention is intended to include all isotopes of atoms occurring in the present compounds. Isotopes include those atoms having the same atomic number but different mass numbers. By way of general example and without limitation, isotopes of hydrogen include tritium and deuterium. Isotopes of carbon include C-13 and C-14.

When any variable (e.g., R⁶) occurs more than one time in any constituent or formula for a compound, its definition at each occurrence is independent of its definition at every other occurrence. Thus, for example, if a group is shown to be substituted with 0-2 R6, then said group may optionally be substituted with up to two R6 groups and R6 at each occurrence is selected independently from the definition of R⁶. Also, combinations of substituents and/or variables are permissible only if such combinations result in stable compounds.

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When a bond to a substituent is shown to cross a bond connecting two atoms in a ring, then such substituent may be bonded to any atom on the ring. When a substituent is listed without indicating the atom via which such substituent is bonded to the rest of the compound of a given formula, then such substituent may be bonded via any atom in such substituent. Combinations of substituents and/or variables are permissible only if such combinations result in stable compounds.

As used herein, "alkyl" or "alkylene" is intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms. C₁₋₁₀ alkyl (or alkylene), is intended to include C₁, C₂, C₃, C₄, C₅, C₆, C₇, C₈, C₉, and C₁₀ alkyl groups. Examples of alkyl include, but are not limited to, methyl, ethyl, n-propyl, i-propyl, n-butyl, s-butyl, t-butyl, n-pentyl, and s-pentyl. "Haloalkyl" is "Flator intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms, substituted with 1 or more halogen (for example $-C_vF_w$ where v = 1 to 3 and w = 1 to (2v+1)). Examples of haloalkyl include, but are not limited to, trifluoromethyl, trichloromethyl, pentafluoroethyl, and pentachloroethyl. "Alkoxy" represents an alkyl group as defined above with the indicated number of carbon atoms attached through an oxygen bridge. C₁₋₁₀ alkoxy, is intended to include C1, C2, C3, C4, C5, C6, C7, C8, C9, and C10 alkoxy groups. Examples of alkoxy include, but are not limited to, methoxy, ethoxy, n-propoxy, i-propoxy, n-butoxy, s-butoxy, t-butoxy, n-pentoxy, and s-pentoxy. "Cycloalkyl" is intended to include saturated ring groups, such as cyclopropyl, cyclobutyl, or cyclopentyl. C3-7 cycloalkyl, is intended to include C3, C4, C5, C6, and C7 cycloalkyl groups. "Alkenyl" or "alkenylene" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more unsaturated carbon-carbon bonds which may occur in any stable point along the chain, such as ethenyl and propenyl. C2-10 alkenyl (or alkenylene), is intended to include C2, C3, C4, C5, C6, C7, C8, C9, and C10 alkenyl groups. "Alkynyl" or "alkynylene" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more triple carbon-carbon bonds which may occur in any stable point along the chain, such as ethynyl and propynyl. C₂₋₁₀ alkynyl (or alkynylene), is intended to include C2, C3, C4, C5, C6, C7, C8, C9, and C10 alkynyl groups.

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"Halo" or "halogen" as used herein refers to fluoro, chloro, bromo, and iodo; and "counterion" is used to represent a small, negatively charged species such as chloride. bromide, hydroxide, acetate, and sulfate.

As used herein, "carbocycle" or "carbocyclic group" is intended to mean any stable 3, 4, 5, 6, or 7-membered monocyclic or bicyclic or 7, 8, 9, 10, 11, 12, or 13-membered bicvclic or tricyclic, any of which may be saturated, partially unsaturated, or aromatic. Examples of such carbocycles include, but are not limited to, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, adamantyl, cyclooctyl, [3.3.0]bicyclooctane, [4.3.0]bicyclononane, [4.4.0]bicyclodecane, [2.2.2]bicyclooctane, fluorenyl, phenyl, naphthyl, indanyl, adamantyl, and tetrahydronaphthyl.

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As used herein, the term "heterocycle" or "heterocyclic group" is intended to mean a stable 5, 6, or 7-membered monocyclic or bicyclic or 7, 8, 9, or 10-membered bicyclic heterocyclic ring which is saturated, partially unsaturated or unsaturated (aromatic), and which consists of carbon atoms and 1, 2, 3, or 4 heteroatoms independently selected from the group consisting of N. NH. O and S and including any bicyclic group in which any of the above-defined heterocyclic rings is fused to a benzene ring. The nitrogen and sulfur heteroatoms may optionally be oxidized. The heterocyclic ring may be attached to its pendant group at any heteroatom or carbon atom which results in a stable structure. The heterocyclic rings described herein may be substituted on carbon or on a nitrogen atom if the resulting compound is stable. A nitrogen in the heterocycle may optionally be quaternized. It is preferred that when the total number of S and O atoms in the heterocycle exceeds 1, then these heteroatoms are not adjacent to one another. It is preferred that the total number of S and O atoms in the heterocycle is not more than 1. As used herein, the term "aromatic heterocyclic group" or "heteroaryl" is intended to mean a stable 5, 6, or 7membered monocyclic or bicyclic or 7, 8, 9, or 10-membered bicyclic heterocyclic aromatic ring which consists of carbon atoms and 1, 2, 3, or 4 heterotams independently selected from the group consisting of N, NH, O and S. It is to be noted that total number of S and O atoms in the aromatic heterocycle is not more than 1.

Examples of heterocycles include, but are not limited to, acridinyl, azocinyl, benzimidazolyl, benzofuranyl, benzothiofuranyl, benzothiophenyl, benzoxazolyl, 30 benzthiazolyl, benztriazolyl, benzietrazolyl, benzisoxazolyl, benzisothiazolyl, benzimidazolinyl, carbazolyl, 4aH-carbazolyl, carbolinyl, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, 2H,6H-1,5,2-dithiazinyl, dihydrofuro[2,3-b]tetrahydrofuran, furanyl, furazanyl, imidazolidinyl, imidazolinyl, imidazolyl, 1H-indazolyl, indolenyl, indolinyl, indolizinyl, indolyl, 3H-indolyl, isobenzofuranyl, isochromanyl, isoindazolyl, isoindolinyl, isoindolyl, isoquinolinyl, isothiazolyl, isoxazolyl, methylenedioxyphenyl, morpholinyl, naphthyridinyl, octahydroisoquinolinyl, oxadiazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-

oxadiazolyl, 1,3,4-oxadiazolyl, oxazolidinyl, oxazolyl, oxazolidinyl, pyrimidinyl, phenanthridinyl, phenanthrolinyl, phenazinyl, phenothiazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, piperidonyl, 4-piperidonyl, piperonyl, pteridinyl, purinyl, pyrazolyl, pyrazolyl, pyrazolyl, pyrazolyl, pyridazinyl, pyridooxazole, pyridoimidazole, pyridothiazole, pyridinyl, pyridyl, pyrimidinyl, pyrrolidinyl, pyrrolinyl, 2H-pyrrolyl, pyrrolyl, quinazolinyl, quinolinyl, 4H-quinolizinyl, quinoxalinyl, quinuclidinyl, tetrahydrofuranyl, tetrahydroisoquinolinyl, tetrahydroquinolinyl, tetrazolyl, 6H-1,2,5-thiadiazinyl, 1,2,3-thiadiazolyl, 1,2,4thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, thianthrenyl, thiazolyl, thienyl, thienothiazolyl, thienooxazolyl, thienoimidazolyl, thiophenyl, triazinyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, and xanthenyl. Also included are fused ring and spiro compounds containing, for example, the above heterocycles.

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The phrase "pharmaceutically acceptable" is employed herein to refer to those compounds, materials, compositions, and/or dosage forms which are, within the scope of sound medical judgment, suitable for use in contact with the tissues of human beings and animals without excessive toxicity, irritation, allergic response, or other problem or complication, commensurate with a reasonable benefit/risk ratio.

As used herein, "pharmaceutically acceptable salts," refer to derivatives of the lean, which was a co disclosed compounds wherein the parent compound is modified by making acid or base salts thereof. Examples of pharmaceutically acceptable salts include, but are not limited to, mineral or organic acid salts of basic residues such as amines; alkali or organic salts of acidic residues such as carboxylic acids; and the like. The pharmaceutically acceptable salts include the conventional non-toxic salts or the quaternary ammonium salts of the parent compound formed, for example, from non-toxic inorganic or organic acids. For example, such conventional non-toxic salts include those derived from inorganic acids such as hydrochloric, hydrobromic, sulfuric, sulfamic, phosphoric, nitric and the like; and the salts prepared from organic acids such as acetic, propionic, succinic, glycolic, stearic, lactic, malic, tartaric, citric, ascorbic, pamoic, maleic, hydroxymaleic, phenylacetic, glutamic, benzoic, salicylic, sulfanilic, 2-acetoxybenzoic, fumaric, toluenesulfonic, methanesulfonic, ethane disulfonic, oxalic, isethionic, and the like.

The pharmaceutically acceptable salts of the present invention can be synthesized from the parent compound which contains a basic or acidic moiety by conventional chemical methods. Generally, such salts can be prepared by reacting the free acid or base forms of these compounds with a stoichiometric amount of the appropriate base or acid in water or in an organic solvent, or in a mixture of the two; generally, nonaqueous media like ether, ethyl acetate, ethanol, isopropanol, or acetonitrile are preferred. Lists of suitable salts are found in Remington's Pharmaceutical Sciences, 17th ed., Mack

Publishing Company, Easton, PA, 1985, p. 1418, the disclosure of which is hereby incorporated by reference.

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"Prodrugs" are intended to include any covalently bonded carriers which release the active parent drug according to formula (I) in vivo when such prodrug is administered to a mammalian subject. Prodrugs of a compound of formula (I) are prepared by modifying functional groups present in the compound in such a way that the modifications are cleaved, either in routine manipulation or in vivo, to the parent compound. Prodrugs include compounds of formula (I) wherein a hydroxy, amino, or sulfhydryl group is bonded to any group that, when the prodrug or compound of formula (I) is administered to a mammalian subject, cleaves to form a free hydroxyl, free amino, or free sulfhydryl group, respectively. Examples of prodrugs include, but are not limited to, acetate, formate and benzoate derivatives of alcohol and amine functional groups in the compounds of formula (I), and the like.

"Stable compound" and "stable structure" are meant to indicate a compound that is 15 sufficiently robust to survive isolation to a useful degree of purity from a reaction mixture. and formulation into an efficacious therapeutic agent.

"Therapeutically effective amount" is intended to include an amount of a ราบราทิสในสายคณะสมัยใช้เป็นก compound of the present invention or an amount of the combination of compounds claimed effective to inhibit factor Xa or thrombin or treat diseases related to factor Xa or thrombin in a host. The combination of compounds is preferably a synergistic combination. Synergy, as described for example by Chou and Talalay, Adv. Enzyme Regul. 22:27-55 (1984), occurs when the effect (in this case, inhibition of factor Xa or thrombin) of the compounds when administered in combination is greater than the additive effect of the compounds when administered alone as a single agent. In general, a synergistic effect is most clearly demonstrated at suboptimal concentrations of the compounds. Synergy can be in terms of lower cytotoxicity, increased antiviral effect, or some other beneficial effect of the combination compared with the individual components.

SYNTHESIS

The compounds of the present invention can be prepared in a number of ways known to one skilled in the art of organic synthesis. The compounds of the present invention can be synthesized using the methods described below, together with synthetic methods known in the art of synthetic organic chemistry, or by variations thereon as appreciated by those skilled in the art. Preferred methods include, but are not limited to, those described below. The reactions are performed in a solvent appropriate to the reagents and materials employed and suitable for the transformations being effected. It will be understood by those skilled in the art of organic synthesis that the functionality present on the molecule should be consistent with the transformations proposed. This will

sometimes require a judgment to modify the order of the synthetic steps or to select one particular process scheme over another in order to obtain a desired compound of the invention. It will also be recognized that another major consideration in the planning of any synthetic route in this field is the judicious choice of the protecting group used for protection of the reactive functional groups present in the compounds described in this invention. An authoritative account describing the many alternatives to the trained practitioner is Greene and Wuts (*Protective Groups In Organic Synthesis*, Wiley and Sons, 1991). All references cited herein are hereby incorporated in their entirety herein by reference.

Compounds wherein rings D-E are A or B, shown below:

can be prepared via the methodology outlined in Scheme I below.

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15 Scheme I

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Removal of the amino protecting group followed by further manipulation can afford key starting materials wherein the amino is a benzylamine or alpha-amino acid or all analogs stated earlier. The starting material can also be obtained from intermediate 4

via an SN2 type displacement of the o-tosylate. Decarboxylation of intermediate 3 affords the ketone analog that also can be further manipulated to afford additional starting materials D-E. Coupling of analogs such as intermediate 7 via standard techniques followed by displacement of the phenoxy pyridine via standard techniques known to those in the art should afford the compounds of formula A. Chiral compounds can be separated via chiral HPLC techniques or by co-crystallization methods with a known chiral precursor.

Compounds wherein D-E is of formula B as shown above can be prepared as shown in Scheme II.

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Via this scheme amino intermediates such as 3(B) and phenoxy analogs 6 and 7 can be obtained easily via the methods previously described. These intermediates can be further coupled to requisite precursors followed by conversion of the phenoxy group to an amino via standard techniques to afford the amino-pyridyl compounds of formula 1-3.

The unsaturated analogs can be prepared according to Scheme III.

Scheme III

Intermediate 3 can be further manipulated to afford other D-E intermediates via methods described previously. In a similar fashion the other unsaturated analog can be prepared via Scheme IV shown below.

Scheme IV

Scheme V describes the preparation of 3-aminobenzofuran intermediates.

Scheme V

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4-benzyloxy-2(1H)-pyridone (available from Aldrich) can be converted to the aminopyridine derivative using standard procedures known to the practitioners of the art. Debenzylation, coupling with bromoethylacetate, followed by basic hydrolysis affords an intermediate that undergoes the Friedel-Crafts acylation.

Scheme VI describes the preparation of indole intermediates.

Scheme VI

Scheme VII describes the preparation of 3-halo-4-aminobenzothiophene intermediates.

10 Scheme VII

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Scheme VIII describes the preparation of 1-substituted-7-amino-azabenzimidazole intermediates.

Scheme IX

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Scheme X describes the preparation of 2-substituted-7-amino-azabenzimidazole intermediates.

Scheme X

G'=O, NH, (CH2)nOR

Scheme XI describes the preparation of 5-aminobenzisoxazole intermediates.

Scheme XI

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Synthesis of 5-aminobenzisoxazoles in which the 3-position may be a protected amine could be accomplished starting from the commercially available 3-cyano-4-fluoronitrobenzene. Displacement of flourine with acetohydroxamic acid under basic conditions followed by ring closure by subsequent addition to the nitrile would yield the benzisoxazole core. Suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XII describes the preparation of 5-aminoindazole intermediates.

Scheme XII

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Synthesis of 5-aminoindazoles in which the 3-position may be a protected amine could be accomplished starting from the commercially available 3-cyano-4-fluoronitrobenzene. Displacement of flourine with hydrazine followed by ring closure by subsequent addition to the nitrile would yield the indazole core. Suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XIII describes the preparation of 5-aminobenzisothiazole intermediates.

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Scheme XIII

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Synthesis of 5-aminobenzisothiazoles in which the 3-position may be a protected amine could be accomplished starting from the commercially available 2-benzylthio-5-nitrobenzonitrile. Conversion of the aryl nitrile to benzamidine, sulfoxide formation and ring closure/debenzylation would yield the benzisothiazole core. Suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XIV describes the preparation of 6-aminobenzisoxazoleintermediates.

Scheme XIV

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Synthesis of 6-aminobenzisoxazoles in which the 3-position may be a protected amine could be accomplished starting from commercially available 2-fluoro-4-nitrobenzoic acid. Conversion of carboxylic acid to nitrile via standard manipulations

would give 2-fluoro-4-nitrobenzonitrile. Displacement of flourine with acetohydroxamic acid under basic conditions followed by ring closure by subsequent addition to the nitrile would yield the benzisoxazole core. Suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XV describes the preparation of 5-aminoindazole intermediates.

Scheme XV

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Synthesis of 5-aminoindazoles in which the 3-position may be a protected amine could be accomplished starting from from 2-fluoro-4-nitrobenzonitrile whose synthesis is described elsewhere in this patent. Displacement of flourine with hydrazine followed by ring closure by subsequent addition to the nitrile would yield the indazole core. Suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XVI describes the preparation of 6-aminobenzisothiazole intermediates.

Scheme XVI

Synthesis of 6-aminobenzisothiazoles in which the 3-position may be a protected amine could be accomplished starting from 2-fluoro-4-nitrobenzonitrile whose synthesis is described elsewhere in this patent. Displacement of flourine with benzylthio anion yields 2-benzylthio-4-nitrobenzonitrile. Conversion of the aryl nitrile to benzamidine, sulfoxide formation and ring closure/debenzylation would yield the benzisothiazole core. Suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XVII describes the preparation of 6-aminoisoindole intermediates.

Scheme XVII

Synthesis of 6-aminoisoindoles in which the 1-position may be a protected amine could be accomplished starting from commercially available 2-cyano-4-nitrotoluene. Bromination of tolyl methyl to give a benzyl bromide followed by displacement with azide and reduction to benzylamine would cyclize to the isoindole core. Suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XVIII describes the preparation of 5-aminoisoindole intermediates.

Scheme XVIII

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Synthesis of 5-aminoisoindoles in which the 1-position may be a protected amine could be accomplished starting from commercially available 2-cyano-5-nitrotoluene.

Bromination of tolyl methyl to give a benzyl bromide followed by displacement with azide and reduction to benzylamine would cyclize to the isoindole core. Suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XIX describes the preparation of 2-aminoindole derivatives a intermediates.

20 Scheme XIX

O₂N 1) H₂C (CO₂H)₂ / pyr piperdine / 90 °C 2) SOCl₂ / DMF / CHCl₃ O₂N 1) KOH / PhOH 2) NH₂OAC N 2) NH₂OAC N 3) P on 4) Ph₂O /
$$\Delta$$
 3) P on 4) Ph₂O / Δ 4) Ph₂O / Δ 5) POCl₃ then Δ

Synthesis of the desired compounds in which the 4-position may be a protected amine could be accomplished starting from the commercially available furan or thiophene. Using literature methods (*J. Med. Chem.* 1989, 32, 1147) one could obtain the 2-nitro-4-chloro-furo or thieno<3,2-c>pyridine. Displacement of the 4-chloro with phenoxide then conversion to 4-amino followed by suitable protection and reduction of the aryl nitro group would provide the desired compound.

Scheme XX describes the preparation of 2-amino-1-*H*-pyrrolo[3,2-c]pyridine intermediates.

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Scheme XX

Synthesis of 2-amino-1-*H*-pyrrolo[3,2-c]pyridine in which the 4-position may be a protected amine could be accomplished starting from the commercially available pyrrole-2-carboxaldehyde. Nitration and protection of pyrrole nitrogen with P1 would afford the nitro/aldehyde intermediate. Using literature methods (*J. Med. Chem.* 1989, 32, 1147) one could obtain the 2-nitro-4-chloro-pyrrolo[3,2-c]pyridine. Displacement of the 4-chloro with phenoxide then conversion to 4-amino followed by suitable protection and reduction of the aryl nitro group would provide the desired compound.

BOC-Protected aminobenzisoxazolemethylbromide can be reacted with the lithium salt of acetonitrile to give the nitrile. The nitrile can be further reacted in a similar fashion as in WO96/16940 to give the desired compound.

The compounds of the present invention have a group "A-B" attached to ring M.

Preparations of some of the rings M and the "A-B" moieties can follow the same methods described in WO97/23212, WO97/30971, WO97/38984, WO98/01428, WO98/06694, WO98/28269, WO98/28282, WO98/57934, WO98/57937, and WO98/57951, the contents of which are incorporated herein by reference. Preparations of the some of the rings M can also follow the same methods described in WO98/28269, WO98/57951, and WO98/57937, the contents of which are incorporated.

WO98/57937, the contents of which are incorporated herein by reference. Compounds of Formula I can be prepared by reacting an appropriate 6-5 system described above with an appropriate intermediate to either form the desired ring M or to be attached to desired ring M. The above noted publications describe conditions for coupling ring M and a desired 6-5 system.

Other features of the invention will become apparent in the course of the following descriptions of exemplary embodiments which are given for illustration of the invention and are not intended to be limiting thereof.

Utility

The compounds of this invention are useful as anticoagulants for the treatment or prevention of thromboembolic disorders in mammals. The term "thromboembolic disorders" as used herein includes arterial or venous cardiovascular or cerebrovascular thromboembolic disorders, including, for example, unstable angina, first or recurrent myocardial infarction, ischemic sudden death, transient ischemic attack, stroke, atherosclerosis, venous thrombosis, deep vein thrombosis, thrombophlebitis, arterial embolism, coronary and cerebral arterial thrombosis, cerebral embolism, kidney embolisms, and pulmonary embolisms. The anticoagulant effect of compounds of the present invention is believed to be due to inhibition of factor Xa, thrombin, or both.

The effectiveness of compounds of the present invention as inhibitors of factor Xa can be determined using purified human factor Xa and synthetic substrate. The rate of factor Xa hydrolysis of chromogenic substrate S2222 (Kabi Pharmacia, Franklin, OH) can be measured both in the absence and presence of compounds of the present invention. Hydrolysis of the substrate resulted in the release of pNA, which can be monitored spectrophotometrically by measuring the increase in absorbance at 405 nM. A decrease in the rate of absorbance change at 405 nm in the presence of inhibitor is indicative of enzyme inhibition. The results of this assay are expressed as inhibitory constant, K_i.

Factor Xa determinations were made in 0.10 M sodium phosphate buffer, pH 7.5, containing 0.20 M NaCl, and 0.5 % PEG 8000. The Michaelis constant, K_m, for substrate hydrolysis can be determined at 25°C using the method of Lineweaver and Burk. Values of K_i were determined by allowing 0.2-0.5 nM human factor Xa (Enzyme Research Laboratories, South Bend, IN) to react with the substrate (0.20 mM-1 mM) in the presence of inhibitor. Reactions were allowed to go for 30 minutes and the velocities (rate of absorbance change vs time) were measured in the time frame of 25-30 minutes. The following relationship can be used to calculate K_i values:

$$(v_0-v_s)/v_s = I/(K_i (1 + S/K_m))$$

where:

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vo is the velocity of the control in the absence of inhibitor;

v_s is the velocity in the presence of inhibitor;

I is the concentration of inhibitor,

Ki is the dissociation constant of the enzyme:inhibitor complex;

S is the concentration of substrate;

Km is the Michaelis constant.

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Compounds tested in the above assay are considered to be active if they exhibit a K_i of $\leq 10~\mu M$. Preferred compounds of the present invention have K_i 's of $\leq 1~\mu M$. More preferred compounds of the present invention have K_i 's of $\leq 0.1~\mu M$. Even more preferred

compounds of the present invention have K_i 's of \leq 0.01 μ M. Still more preferred compounds of the present invention have K_i 's of \leq 0.001 μ M.

The antithrombotic effect of compounds of the present invention can be demonstrated in a rabbit arterio-venous (AV) shunt thrombosis model. In this model, rabbits weighing 2-3 kg anesthetized with a mixture of xylazine (10 mg/kg i.m.) and ketamine (50 mg/kg i.m.) are used. A saline-filled AV shunt device is connected between the femoral arterial and the femoral venous cannulae. The AV shunt device consists of a piece of 6-cm tygon tubing which contains a piece of silk thread. Blood will flow from the femoral artery via the AV-shunt into the femoral vein. The exposure of flowing blood to a silk thread will induce the formation of a significant thrombus. After forty minutes, the shunt is disconnected and the silk thread covered with thrombus is weighed. Test agents or vehicle will be given (i.v., i.p., s.c., or orally) prior to the opening of the AV shunt. The percentage inhibition of thrombus formation is determined for each treatment group. The ID50 values (dose which produces 50% inhibition of thrombus formation) are estimated by linear regression.

The compounds of formula (I) may also be useful as inhibitors of serine proteases, notably human thrombin, plasma kallikrein and plasmin. Because of their inhibitory action, these compounds are indicated for use in the prevention or treatment of physiological reactions, blood coagulation and inflammation, catalyzed by the aforesaid class of enzymes. Specifically, the compounds have utility as drugs for the treatment of diseases arising from elevated thrombin activity such as myocardial infarction, and as reagents used as anticoagulants in the processing of blood to plasma for diagnostic and other commercial purposes.

Compounds of the present invention can be shown to be direct acting inhibitors of the serine protease thrombin by their ability to inhibit the cleavage of small molecule substrates by thrombin in a purified system. *In vitro* inhibition constants were determined by the method described by Kettner et al. in *J. Biol. Chem.* 265, 18289-18297 (1990), herein incorporated by reference. In these assays, thrombin-mediated hydrolysis of the chromogenic substrate S2238 (Helena Laboratories, Beaumont, TX) can be monitored spectrophotometrically. Addition of an inhibitor to the assay mixture results in decreased absorbance and is indicative of thrombin inhibition. Human thrombin (Enzyme Research Laboratories, Inc., South Bend, IN) at a concentration of 0.2 nM in 0.10 M sodium phosphate buffer, pH 7.5, 0.20 M NaCl, and 0.5% PEG 6000, can be incubated with various substrate concentrations ranging from 0.20 to 0.02 mM. After 25 to 30 minutes of incubation, thrombin activity can be assayed by monitoring the rate of increase in absorbance at 405 nm which arises owing to substrate hydrolysis. Inhibition constants were derived from reciprocal plots of the reaction velocity as a function of substrate concentration using the standard method of Lineweaver and Burk.

Compounds tested in the above assay are considered to be active if they exhibit a K_i of $\leq 10~\mu M$. Preferred compounds of the present invention have K_i 's of $\leq 1~\mu M$. More preferred compounds of the present invention have K_i 's of $\leq 0.1~\mu M$. Even more preferred compounds of the present invention have K_i 's of $\leq 0.01~\mu M$. Still more preferred compounds of the present invention have K_i 's of $\leq 0.001~\mu M$.

The compounds of the present invention can be administered alone or in combination with one or more additional therapeutic agents. These include other anti-coagulant or coagulation inhibitory agents, anti-platelet or platelet inhibitory agents, thrombin inhibitors, or thrombolytic or fibrinolytic agents.

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The compounds are administered to a mammal in a therapeutically effective amount. By "therapeutically effective amount" it is meant an amount of a compound of Formula I that, when administered alone or in combination with an additional therapeutic agent to a mammal, is effective to prevent or ameliorate the thromboembolic disease condition or the progression of the disease.

By "administered in combination" or "combination therapy" it is meant that the compound of Formula I and one or more additional therapeutic agents are administered concurrently to the mammal being treated. When administered in combination each component may be administered at the same time or sequentially in any order at different points in time. Thus, each component may be administered separately but sufficiently

closely in time so as to provide the desired therapeutic effect. Other anticoagulant agents (or coagulation inhibitory agents) that may be used in combination with the compounds of this invention include warfarin and heparin, as well as other factor Xa inhibitors such as those described in the publications identified above under Background of the Invention.

The term anti-platelet agents (or platelet inhibitory agents), as used herein, denotes agents that inhibit platelet function such as by inhibiting the aggregation, adhesion or granular secretion of platelets. Such agents include, but are not limited to, the various known non-steroidal anti-inflammatory drugs (NSAIDS) such as aspirin, ibuprofen, naproxen, sulindac, indomethacin, mefenamate, droxicam, diclofenac, sulfinpyrazone, and piroxicam, including pharmaceutically acceptable salts or prodrugs thereof. Of the NSAIDS, aspirin (acetylsalicyclic acid or ASA), and piroxicam are preferred. Other suitable anti-platelet agents include ticlopidine, including pharmaceutically acceptable salts or prodrugs thereof. Ticlopidine is also a preferred compound since it is known to be gentle on the gastro-intestinal tract in use. Still other suitable platelet inhibitory agents include IIb/IIIa antagonists, thromboxane-A2-receptor antagonists and thromboxane-A2-synthetase inhibitors, as well as pharmaceutically acceptable salts or prodrugs thereof.

The term thrombin inhibitors (or anti-thrombin agents), as used herein, denotes inhibitors of the serine protease thrombin. By inhibiting thrombin, various thrombin-mediated processes, such as thrombin-mediated platelet activation (that is, for

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example, the aggregation of platelets, and/or the granular secretion of plasminogen activator inhibitor-1 and/or serotonin) and/or fibrin formation are disrupted. A number of thrombin inhibitors are known to one of skill in the art and these inhibitors are contemplated to be used in combination with the present compounds. Such inhibitors include, but are not limited to, boroarginine derivatives, boropeptides, heparins, hirudin and argatroban, including pharmaceutically acceptable salts and prodrugs thereof. Boroarginine derivatives and boropeptides include N-acetyl and peptide derivatives of boronic acid, such as C-terminal a-aminoboronic acid derivatives of lysine, ornithine, arginine, homoarginine and corresponding isothiouronium analogs thereof. The term hirudin, as used herein, includes suitable derivatives or analogs of hirudin, referred to herein as hirulogs, such as disulfatohirudin. Boropeptide thrombin inhibitors include compounds described in Kettner et al., U.S. 5,187,157 and EP 293 881 A2, the disclosures of which are hereby incorporated herein by reference. Other suitable boroarginine derivatives and boropeptide thrombin inhibitors include those disclosed in WO92/07869 and EP 471,651 A2, the disclosures of which are hereby incorporated herein by reference.

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The term thrombolytics (or fibrinolytic) agents (or thrombolytics or fibrinolytics). as used herein, denotes agents that lyse blood clots (thrombi). Such agents include tissue plasminogen activator, anistreplase, urokinase or streptokinase, including pharmaceutically acceptable salts or prodrugs thereof. The term anistreplase, as used herein, refers to anisoylated plasminogen streptokinase activator complex, as described, for example, in European Patent Application No. 028,489, the disclosure of which is hereby incorporated herein by reference herein. The term urokinase, as used herein, is intended to denote both dual and single chain urokinase, the latter also being referred to herein as prourokinase.

> Administration of the compounds of Formula I of the invention in combination with such additional therapeutic agent, may afford an efficacy advantage over the compounds and agents alone, and may do so while permitting the use of lower doses of each. A lower dosage minimizes the potential of side effects, thereby providing an increased margin of safety.

The compounds of the present invention are also useful as standard or reference compounds, for example as a quality standard or control, in tests or assays involving the inhibition of factor Xa. Such compounds may be provided in a commercial kit, for example, for use in pharmaceutical research involving factor Xa. For example, a compound of the present invention could be used as a reference in an assay to compare its known activity to a compound with an unknown activity. This would ensure the experimenter that the assay was being performed properly and provide a basis for comparison, especially if the test compound was a derivative of the reference compound.

When developing new assays or protocols, compounds according to the present invention could be used to test their effectiveness.

The compounds of the present invention may also be used in diagnostic assays involving factor Xa. For example, the presence of factor Xa in an unknown sample could be determined by addition of chromogenic substrate S2222 to a series of solutions containing test sample and optionally one of the compounds of the present invention. If production of pNA is observed in the solutions containing test sample, but not in the presence of a compound of the present invention, then one would conclude factor Xa was present.

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Dosage and Formulation

The compounds of this invention can be administered in such oral dosage forms as tablets, capsules (each of which includes sustained release or timed release formulations), pills, powders, granules, elixirs, tinctures, suspensions, syrups, and emulsions. They may also be administered in intravenous (bolus or infusion), intraperitoneal, subcutaneous, or intramuscular form, all using dosage forms well known to those of ordinary skill in the pharmaceutical arts. They can be administered alone, but generally will be administered with a pharmaceutical carrier selected on the basis of the chosen route of administration and standard pharmaceutical practice.

The dosage regimen for the compounds of the present invention will, of course, vary depending upon known factors, such as the pharmacodynamic characteristics of the particular agent and its mode and route of administration; the species, age, sex, health, medical condition, and weight of the recipient; the nature and extent of the symptoms; the kind of concurrent treatment; the frequency of treatment; the route of administration, the renal and hepatic function of the patient and the effect desired. A physician or veterinarian can determine and prescribe the effective amount of the drug required to prevent, counter, or arrest the progress of the thromboembolic disorder.

By way of general guidance, the daily oral dosage of each active ingredient, when used for the indicated effects, will range between about 0.001 to 1000 mg/kg of body weight, preferably between about 0.01 to 100 mg/kg of body weight per day, and most preferably between about 1.0 to 20 mg/kg/day. Intravenously, the most preferred doses will range from about 1 to about 10 mg/kg/minute during a constant rate infusion. Compounds of this invention may be administered in a single daily dose, or the total daily dosage may be administered in divided doses of two, three, or four times daily.

Compounds of this invention can be administered in intranasal form via topical use of suitable intranasal vehicles, or via transdermal routes, using transdermal skin patches. When administered in the form of a transdermal delivery system, the dosage

administration will, of course, be continuous rather than intermittent throughout the dosage regimen.

The compounds are typically administered in admixture with suitable pharmaceutical diluents, excipients, or carriers (collectively referred to herein as pharmaceutical carriers) suitably selected with respect to the intended form of administration, that is, oral tablets, capsules, elixirs, syrups and the like, and consistent with conventional pharmaceutical practices.

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For instance, for oral administration in the form of a tablet or capsule, the active drug component can be combined with an oral, non-toxic, pharmaceutically acceptable, inert carrier such as lactose, starch, sucrose, glucose, methyl callulose, magnesium stearate, dicalcium phosphate, calcium sulfate, mannitol, sorbitol and the like; for oral administration in liquid form, the oral drug components can be combined with any oral, non-toxic, pharmaceutically acceptable inert carrier such as ethanol, glycerol, water, and the like. Moreover, when desired or necessary, suitable binders, lubricants, disintegrating agents, and coloring agents can also be incorporated into the mixture. Suitable binders include starch, gelatin, natural sugars such as glucose or beta-lactose, corn sweeteners, natural and synthetic gums such as acacia, tragacanth, or sodium alginate, carboxymethylcellulose, polyethylene glycol, waxes, and the like. Lubricants used in these dosage forms include sodium oleate, sodium stearate, magnesium stearate, sodium benzoate, sodium acetate, sodium chloride, and the like. Disintegrators include, without limitation, starch, methyl cellulose, agar, bentonite, xanthan gum, and the like.

The compounds of the present invention can also be administered in the form of liposome delivery systems, such as small unilamellar vesicles, large unilamellar vesicles, and multilamellar vesicles. Liposomes can be formed from a variety of phospholipids, such as cholesterol, stearylamine, or phosphatidylcholines.

Compounds of the present invention may also be coupled with soluble polymers as targetable drug carriers. Such polymers can include polyvinylpyrrolidone, pyran copolymer, polyhydroxypropylmethacrylamide-phenol, polyhydroxyethylaspartamidephenol, or polyethyleneoxide-polylysine substituted with palmitoyl residues. Furthermore, the compounds of the present invention may be coupled to a class of biodegradable polymers useful in achieving controlled release of a drug, for example, polylactic acid, polyglycolic acid, copolymers of polylactic and polyglycolic acid, polyepsilon caprolactone, polyhydroxy butyric acid, polyorthoesters, polyacetals, polydihydropyrans, polycyanoacylates, and crosslinked or amphipathic block copolymers of hydrogels.

Dosage forms (pharmaceutical compositions) suitable for administration may contain from about 1 milligram to about 100 milligrams of active ingredient per dosage

unit. In these pharmaceutical compositions the active ingredient will ordinarily be present in an amount of about 0.5-95% by weight based on the total weight of the composition.

Gelatin capsules may contain the active ingredient and powdered carriers, such as lactose, starch, cellulose derivatives, magnesium stearate, stearic acid, and the like. Similar diluents can be used to make compressed tablets. Both tablets and capsules can be manufactured as sustained release products to provide for continuous release of medication over a period of hours. Compressed tablets can be sugar coated or film coated to mask any unpleasant taste and protect the tablet from the atmosphere, or enteric coated for selective disintegration in the gastrointestinal tract.

Liquid dosage forms for oral administration can contain coloring and flavoring to increase patient acceptance.

In general, water, a suitable oil, saline, aqueous dextrose (glucose), and related sugar solutions and glycols such as propylene glycol or polyethylene glycols are suitable carriers for parenteral solutions. Solutions for parenteral administration preferably contain a water soluble salt of the active ingredient, suitable stabilizing agents, and if necessary, buffer substances. Antioxidizing agents such as sodium bisulfite, sodium sulfite, or ascorbic acid, either alone or combined, are suitable stabilizing agents. Also used are citric acid and its salts and sodium EDTA. In addition, parenteral solutions can contain preservatives, such as benzalkonium chloride, methyl- or propyl-paraben, and chlorobutanol.

Suitable pharmaceutical carriers are described in Remington's Pharmaceutical Sciences, Mack Publishing Company, a standard reference text in this field.

Representative useful pharmaceutical dosage-forms for administration of the compounds of this invention can be illustrated as follows:

Capsules

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A large number of unit capsules can be prepared by filling standard two-piece hard gelatin capsules each with 100 milligrams of powdered active ingredient, 150 milligrams of lactose, 50 milligrams of cellulose, and 6 milligrams magnesium stearate.

Soft Gelatin Capsules

A mixture of active ingredient in a digestable oil such as soybean oil, cottonseed oil or olive oil may be prepared and injected by means of a positive displacement pump into gelatin to form soft gelatin capsules containing 100 milligrams of the active ingredient. The capsules should be washed and dried.

Tablets

Tablets may be prepared by conventional procedures so that the dosage unit is 100 milligrams of active ingredient, 0.2 milligrams of colloidal silicon dioxide, 5 milligrams of magnesium stearate, 275 milligrams of microcrystalline cellulose, 11

milligrams of starch and 98.8 milligrams of lactose. Appropriate coatings may be applied to increase palatability or delay absorption.

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A parenteral composition suitable for administration by injection may be prepared by stirring 1.5% by weight of active ingredient in 10% by volume propylene glycol and water. The solution should be made isotonic with sodium chloride and sterilized.

Suspension

An aqueous suspension can be prepared for oral administration so that each 5 mL contain 100 mg of finely divided active ingredient, 200 mg of sodium carboxymethyl cellulose, 5 mg of sodium benzoate, 1.0 g of sorbitol solution, U.S.P., and 0.025 mL of vanillin.

Where the compounds of this invention are combined with other anticoagulant agents, for example, a daily dosage may be about 0.1 to 100 milligrams of the compound of Formula I and about 1 to 7.5 milligrams of the second anticoagulant, per kilogram of patient body weight. For a tablet dosage form, the compounds of this invention generally may be present in an amount of about 5 to 10 milligrams per dosage unit, and the second anti-coagulant in an amount of about 1 to 5 milligrams per dosage unit.

Where the compounds of Formula I are administered in combination with an antiplatelet agent, by way of general guidance, typically a daily dosage may be about 0.01 to
25 milligrams of the compound of Formula I and about 50 to 150 milligrams of the antiplatelet agent, preferably about 0.1 to 1 milligrams of the compound of Formula I and
about 1 to 3 milligrams of antiplatelet agents, per kilogram of patient body weight.

Where the compounds of Formula I are adminstered in combination with thrombolytic agent, typically a daily dosage may be about 0.1 to 1 milligrams of the compound of Formula I, per kilogram of patient body weight and, in the case of the thrombolytic agents, the usual dosage of the thrombolytic agent when administered alone may be reduced by about 70-80% when administered with a compound of Formula I.

Where two or more of the foregoing second therapeutic agents are administered with the compound of Formula I, generally the amount of each component in a typical daily dosage and typical dosage form may be reduced relative to the usual dosage of the agent when administered alone, in view of the additive or synergistic effect of the therapeutic agents when administered in combination.

Particularly when provided as a single dosage unit, the potential exists for a chemical interaction between the combined active ingredients. For this reason, when the compound of Formula I and a second therapeutic agent are combined in a single dosage unit they are formulated such that although the active ingredients are combined in a single dosage unit, the physical contact between the active ingredients is minimized (that is,

reduced). For example, one active ingredient may be enteric coated. By enteric coating one of the active ingredients, it is possible not only to minimize the contact between the combined active ingredients, but also, it is possible to control the release of one of these components in the gastrointestinal tract such that one of these components is not released in the stomach but rather is released in the intestines. One of the active ingredients may also be coated with a material which effects a sustained-release throughout the gastrointestinal tract and also serves to minimize physical contact between the combined active ingredients. Furthermore, the sustained-released component can be additionally enteric coated such that the release of this component occurs only in the intestine. Still another approach would involve the formulation of a combination product in which the one component is coated with a sustained and/or enteric release polymer, and the other component is also coated with a polymer such as a lowviscosity grade of hydroxypropyl methylcellulose (HPMC) or other appropriate materials as known in the art, in order to further separate the active components. The polymer coating serves to form an additional barrier to interaction with the other component.

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These as well as other ways of minimizing contact between the components of combination products of the present invention, whether administered in a single dosage formor administered in separate forms but at the same time by the same manner, will be readily apparent to those skilled in the art, once armed with the present disclosure.

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The following tables contain representative examples of the present invention. Each entry in each table is intended to be paired with each formulae at the start of the table. For example, example 1 of Table 1 is intended to be paired with each of the formulae shown in Table 1. Example 1 of Table 2 is intended to be paired with each of the formulae shown in Table 2.

The following nomenclature is intended for group A in the following tables.

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Z is C(O)NH or C(O)CH₂

5	Ex#	R^{1a}	A	В
	1	CH3	phenyl	2-(aminosulfonyl)phenyl
	2	CH3	phenyl	2-(methylaminosulfonyl)phenyl
	3	CH3	phenyl	1-pyrrolidinocarbonyl
	4	CH3	phenyl	2-(methylsulfonyl)phenyl
10	5	CH3	phenyl	2-(N,N-
15	6 7 8 9	CH3 CH3 CH3 CH3	phenyl phenyl phenyl phenyl	dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl
	10	CH3	phenyl	2-(N-(cyclopropyl-
20	11	CH3	phenyl	methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl
	12	СНЗ	phenyl	2-(N-(cyclopentyl)- aminomethyl)phenyl

		13	СНЗ	phenyl	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl
		14	CH3	2-pyridyl	2-(aminosulfonyl)phenyl
		15	CH3	2-pyridyl	2-(methylaminosulfonyl)phenyl
	5	16	CH3	2-pyridyl	1-pyrrolidinocarbonyl
		17	СНЗ	2-pyridyl	2-(methylsulfonyl)phenyl
		18	CH3	2-pyridyl	2-(N,N-
				1,	dimethylaminomethyl)phenyl
		19	СНЗ	2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
	10	20	СНЗ	2-pyridyl	1-methyl-2-imidazolyl
		21	CH3	2-pyridyl	2-methyl-1-imidazolyl
		22	СНЗ	2-pyridyl	2-(dimethylaminomethyl)-1-
				- Fyy-	imidazolyl
		23	CH3	2-pyridyl	2-(N-(cyclopropyl-
	15			- 133-	methyl)aminomethyl)phenyl
		24	СНЗ	2-pyridyl	2-(N-(cyclobutyl)-
					aminomethyl)phenyl
		25	CH3	2-pyridyl	2-(N-(cyclopentyl)-
•					aminomethyl)phenyl
· · · · · · · · ·	20°	26	СНЗ	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
				are in the substant	methyl)phenyl
inineri		27	СН3	3-pyridyl	2-(aminosulfonyl)phenyl
-172 Smill 4	•	28	СНЗ	3-pyridyl	2-(methylaminosulfonyl)phenyl
		29	CH3	3-pyridyl	1-pyrrolidinocarbonyl
	25	30	СНЗ	3-pyridyl	2-(methylsulfonyl)phenyl
		31	СНЗ	3-pyridyl	2-(N,N-
			٠.		dimethylaminomethyl)phenyl
• •		32	CH3	3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
		33	CH3	3-pyridyl	1-methyl-2-imidazolyl
	30	34	CH3	3-pyridyl	2-methyl-1-imidazolyl
		35	CH3	3-pyridyl	2-(dimethylaminomethyl)-1-
				- FJJ-	imidazolyl
		36	CH3	3-pyridyl	2-(N-(cyclopropyl-
				· _F ,,.	methyl)aminomethyl)phenyl
	35	37	CH3	3-pyridyl	2-(N-(cyclobutyl)-
				- F))-	aminomethyl)phenyl
		38	CH3	3-pyridyl	2-(N-(cyclopentyl)-
				- F)J-	aminomethyl)phenyl
. •		39	CH3	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
	40			o pyrody:	methyl)phenyl
		40	CH3	2-pyrimidyl	2-(aminosulfonyl)phenyl
		41	CH3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
		42	CH3	2-pyrimidyl 2-pyrimidyl	1-pyrrolidinocarbonyl
		43	CH3	2-pyrimidyl	2-(methylsulfonyl)phenyl
	45	44	CH3	2-pyrimidyl 2-pyrimidyl	2-(methylsurfonyr)phenyr 2-(N,N-
. *				- pyrmindyr	dimethylaminomethyl)phenyl
		45	CH3	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
				z-pyrmmuyi	z-(14-pytronumymemyr)pnenyr

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	46	СНЗ	2-pyrimidyl	1-methyl-2-imidazolyl		
	47	CH3	2-pyrimidyl	2-methyl-1-imidazolyl		
	48	CH3	2-pyrimidyl			
			- pytamayi	2-(dimethylaminomethyl)-1- imidazolyl		
5	49	CH3	2-pyrimidyl	2-(N-(cyclopropyl-		
			1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	methyl)aminomethyl)phenyl		
	50	CH3	2-pyrimidyl	2-(N-(cyclobutyl)-		
			- FJJ.			
	51	CH3	2-pyrimidyl	aminomethyl)phenyl		
10			- b)ay:	2-(N-(cyclopentyl)-		
	52	CH3	2-pyrimidyl	aminomethyl)phenyl		
-			- pyrmineyr	2-(N-(3-hydroxypyrrolidinyl)-		
	53	CH3	5-pyrimidyl	methyl)phenyl		
	54	CH3	5-pyrimidyl	2-(aminosulfonyl)phenyl		
15	55	СНЗ	5-pyrimidyl	2-(methylaminosulfonyl)phenyl		
	56	СНЗ	5-pyrimidyl	1-pyrrolidinocarbonyl		
	57	CH3	5-pyrimidyl	2-(methylsulfonyl)phenyl 2-(N,N-		
			o pyrmindyr	• •		
	58	CH3	5-pyrimidyl	dimethylaminomethyl)phenyl		
20	59	CH3	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl		
	60	CH3	5-pyrimidyl	2-methyl-1-imidazolyl		
	61	СНЗ	5-pyrimidyl	2-(dimethylaminomethyl)-1-		
	. **			imidazolyl		
	62	CH3	5-pyrimidyl	2-(N-(cyclopropyl-		
25				methyl)aminomethyl)phenyl		
	63	CH3	5-pyrimidyl	2-(N-(cyclobutyl)-		
		•		aminomethyl)phenyl		
	64	СНЗ	5-pyrimidyl	2-(N-(cyclopentyl)-		
				aminomethyl)phenyl		
30	65	CH3	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-		
				methyl)phenyl		
	66	CH3	2-Cl-phenyl	2-(aminosulfonyl)phenyl		
	67	CH3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl		
	68	СНЗ	2-Cl-phenyl	1-pyrrolidinocarbonyl		
35	69 70	СНЗ	2-Cl-phenyl	2-(methylsulfonyl)phenyl		
	70	CH3	2-Cl-phenyl	2-(N,N-		
	71	0770		dimethylaminomethyl)phenyl		
	71	CH3	2-Cl-phenyl	2-(N-pyrrolidinylmethyl)phenyl		
4.0	72 73	CH3	2-Cl-phenyl	l-methyl-2-imidazolyl		
40	73	CH3	2-Cl-phenyl	2-methyl-1-imidazolyl		
	74	CH3	2-Cl-phenyl	2-(dimethylaminomethyl)-1-		
	75	CU2	0.01.1.	imidazolyl		
	13	СНЗ	2-Cl-phenyl	2-(N-(cyclopropyl-		

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CH3

CH3

2-Cl-phenyl

2-Cl-phenyl

methyl)aminomethyl)phenyl

2-(N-(cyclobutyl)-aminomethyl)phenyl

2-(N-(cyclopentyl)-

	•			aminomethyl)phenyl
	78	СНЗ	2-Cl-phenyi	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl
	79	СН3	2-F-phenyi	2-(aminosulfonyl)phenyl
5	80	CH3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
-	81	CH3	2-F-phenyl	l-pyrrolidinocarbonyl
	82	CH3	2-F-phenyl	2-(methylsulfonyl)phenyl
	83	CH3	2-F-phenyl	2-(N,N-
				dimethylaminomethyl)phenyl
10	84	СНЗ	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	85	CH3	2-F-phenyl	l-methyl-2-imidazolyl
	86	CH3	2-F-phenyl	2-methyl-1-imidazolyl
	87	CH3	2-F-phenyl	2-(dimethylaminomethyl)-1-
				imidazolyl
15	88	CH3	2-F-phenyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	89	CH3	2-F-phenyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	90	СНЗ	2-F-phenyl	2-(N-(cyclopentyl)-
20	. 01	OVIO.		aminomethyl)phenyl
	91	CH3	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
·.	92	СН3		nethyl)phenyl
	93	CH3	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
25	94	CH3	2,6-diF-phenyl 2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
23	95	CH3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	96	CH3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl 2-(N,N-
			2,0 dir -pildilyi	dimethylaminomethyl)phenyl
	.97	CH3	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
30	98 -	CH3	2,6-diF-phenyl	1-methyl-2-imidazolyl
	99	CH3	2,6-diF-phenyl	2-methyl-1-imidazolyl
	100	CH3	2,6-diF-phenyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	101	CH3	2,6-diF-phenyl	2-(N-(cyclopropyl-
35				methyl)aminomethyl)phenyl
	102	CH3	2,6-diF-phenyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	103	CH3	2,6-diF-phenyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
40	104	CH3	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	105	CTTC CTTC		methyl)phenyl
	105	CH2CH3	phenyl	2-(aminosulfonyl)phenyl
	106	CH2CH3	phenyl	2-(methylaminosulfonyl)phenyl
4-	107	CH2CH3	phenyl	1-pyrrolidinocarbonyl
45	108	CH2CH3	phenyl	2-(methylsulfonyl)phenyl
	109	CH2CH3	phenyl	2-(N,N-
				dimethylaminomethyl)phenyl

	110	OT 10 OT 10		
•	110	CH2CH3		2-(N-pyrrolidinylmethyl)phenyl
	111	CH2CH3	phenyl	I-methyl-2-imidazolyl
	112	CH2CH3	phenyl	2-methyl-1-imidazolyl
	113	CH2CH3		2-metry-1-minazoryi
5			phonyr	2-(dimethylaminomethyl)-1-
•	114	CITACITA	, ,	imidazolyl
	114	CH2CH3	phenyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	115	CH2CH3	phenyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
10	116	CH2CH3	phenyl	2-(N-(cyclopentyl)-
			· · · · · · · · · · · · · · · · · · ·	
	117	CH2CH3	phenyl	aminomethyl)phenyl
	**/	CIECII	phenyi	2-(N-(3-hydroxypyrrolidinyl)-
	110	CITOCITO		methyl)phenyl
	118	CH2CH3	2-pyridyl	2-(aminosulfonyl)phenyl
15	119	CH2CH3	2-pyridyl	2-(methylaminosulfonyl)phenyl
•	120	CH2CH3	2-pyridyl	1-pyrrolidinocarbonyl
	121	CH2CH3	2-pyridyl	2-(methylsulfonyl)phenyl
	122	CH2CH3	2-pyridyl	2-(Mcdiyisuffonyi)pnenyi
			- pyridyi	
20	123	CH2CH3	2	dimethylaminomethyl)phenyl
	124		2-pyridyl	- C Py Orienty Intenty 1 /Differior
arithur arithu		CH2CH3	2-pyridyl	l-methyl-2-imidazolyl
HAR STEAMSTONESS.	125	CH2CH3	2-pyridyl	2-methyl-1-imidazolyl
	126	CH2CH3	2-pyridyl	2-(dimethylaminomethyl)-1-
•				imidazolyl
25	127	CH2CH3	2-pyridyl	2-(N-(cyclopropyl-
			10	2-(14-(cyclopiopyi-
	128	CH2CH3	2-pyridyl	methyl)aminomethyl)phenyl
the second second	•	01120110	2 pyridyi	2-(N-(cyclobutyl)-
	129	CH2CH3	2	aminomethyl)phenyl
30	147	CH2CH3	2-pyridyl	2-(N-(cyclopentyl)-
30	120	C110 C110	_	aminomethyl)phenyl
	130	CH2CH3	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
	131	CH2CH3	3-pyridyl	2-(aminosulfonyl)phenyl
	132	CH2CH3	3-pyridyl	2-(methylaminosulfonyl)phenyl
35	133	CH2CH3	3-pyridyl	l-pyrrolidinocarbonyl
	134	CH2CH3	3-pyridyl	2 Grand 1 16 Project
	135	CH2CH3	3-pyridyl	2-(methylsulfonyl)phenyl
		CILCII	3-pyridyi	2-(N,N-
	136	CUACUA		dimethylaminomethyl)phenyl
4.0		CH2CH3	3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
40	137	CH2CH3	3-pyridyl	1-methyl-2-imidazolyl
	138	CH2CH3	3-pyridyl	2-methyl-1-imidazolyl
	139	CH2CH3	3-pyridyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	140	CH2CH3	3-pyridyl	
45			- pjuji	2-(N-(cyclopropyl-
	141.	CH2CH3	2 months.d	methyl)aminomethyl)phenyl
•	- · - ·	CIIZCHS	3-pyridyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
			•	

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		142	СН2СН3	3-pyridyl	2-(N-(cyclopentyl)-
					aminomethyl)phenyl
		143	СН2СН3	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl
	5	144	CH2CH3	2-pyrimidyl	2-(aminosulfonyl)phenyl
•		145	CH2CH3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
		146	CH2CH3	2-pyrimidyl	1-pyrrolidinocarbonyl
		147	CH2CH3	2-pyrimidyl	
					2-(methylsulfonyl)phenyl
		148	CH2CH3	2-pyrimidyl	2-(N,N-
	10				dimethylaminomethyl)phenyl
		149	CH2CH3	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
		150	CH2CH3	2-pyrimidyl	1-methyl-2-imidazolyl
		151	CH2CH3	2-pÿrimidyl	2-methyl-1-imidazolyl
		152	CH2CH3	2-pyrimidyl	2-(dimethylaminomethyl)-1-
	15				imidazolyl
		153	CH2CH3	2-pyrimidyl	2-(N-(cyclopropyl-
•		133	CILCIIS	z-pyimidyi	
		154	CITACITA	2	methyl)aminomethyl)phenyl
		154	Ch2Ch3	2-pyrimidyl	2-(N-(cyclobutyl)-
AW(14) 11	• •				aminomethyl)phenyl
7	20	155	CH2CH3	2-pyrimidyl	2-(N-(cyclopentyl)-
stensi .	11777.3	* *	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		aminomethyl)phenyl
m. Elicar	$\eta \in U_{0}$	156	CH2CH3	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
	***				methyl)phenyl
		157	CH2CH3	5-pyrimidyl	2-(aminosulfonyl)phenyl
	25	158	CH2CH3	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
		159	CH2CH3	5-pyrimidyl	1-pyrrolidinocarbonyl
		160	CH2CH3	5-pyrimidyl	2-(methylsulfonyl)phenyl
quienyi,		161	CH2CH3	5-pyrimidyl	2-(N,N-
		101	CILCII	- - -	•
	2.0	162	CITOCITO	F * * 1.1	dimethylaminomethyl)phenyl
	30		CH2CH3	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
		163	CH2CH3	5-pyrimidyl	1-methyl-2-imidazolyl
		164	CH2CH3	5-pyrimidyl	2-methyl-1-imidazolyl
		165	CH2CH3	5-pyrimidyl	2-(dimethylaminomethyl)-1-
					imidazolyl
	35	166	CH2CH3	5-pyrimidyl	2-(N-(cyclopropyl-
					methyl)aminomethyl)phenyl
		167	CH2CH3	5-pyrimidyl	2-(N-(cyclobutyl)-
			0.20.20	o pyrmindyr	
		168	CH2CH3	5-pyrimidyl	aminomethyl)phenyl
		100	Chzchs	э-рупппауі	2-(N-(cyclopentyl)-
	40				aminomethyl)phenyl
		169	CH2CH3	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
					methyl)phenyl
•		170	CH2CH3	2-Cl-phenyl	2-(aminosulfonyl)phenyl
		171	CH2CH3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	45	172	CH2CH3	2-Cl-phenyl	1-pyrrolidinocarbonyl
		173	CH2CH3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
		174	CH2CH3	2-Cl-phenyl	
		1,4	CHECHS	2-Ci-pucityi	2-(N,N-

	175	CH2CH3	3 2-Cl-phenyl	dimethylaminomethyl)phenyl
	176		F	2-(N-pyrrolidinylmethyl)phenyl
	177		pulling.	I-methyl-2-imidazolyl
5		CH2CH3		2-methyl-1-imidazolyl
-	170	CHZCH	3 2-Cl-phenyl	2-(dimethylaminomethyl)-1-
	179	CHOCH	2011	imidazolyl
	1/9	CH2CH3	2-Cl-phenyl	2-(N-(cyclopropyl-
	180	CUACITA	2.01	methyl)aminomethyl)phenyl
10		CH2CH3	2-Cl-phenyl	2-(N-(cyclobutyl)-
10	181	CH2CH3	2.01	aminomethyl)phenyl
	101	CHZCHS	2-Cl-phenyl	2-(N-(cyclopentyl)-
	182	CH2CH3	2 61 -11	aminomethyl)phenyl
	102	CIIZCHS	2-Cl-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
15	183	СН2СН3	2 F = 1 2	methyl)phenyl
	184	CH2CH3	1	2-(aminosulfonyl)phenyl
	185	CH2CH3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	186	CH2CH3	2-F-phenyl	1-pyrrolidinocarbonyl
	187	CH2CH3	2-F-phenyl	2-(methylsulfonyl)phenyl
20	. 107	CHECHS	2-F-phenyl	2-(N,N-
	188	CH2CH3	2 Frahamad	dimethylaminomethyl)phenyl
	189	CH2CH3	2-F-phenyl 2-F-phenyl	
:	190	CH2CH3	2-F-phenyl	1-methyl-2-imidazolyl
	191	CH2CH3	2-F-phenyl	2-methyl-1-imidazolyl
25		CILCIL	2-r-phenyl	2-(dimethylaminomethyl)-1-
	192	CH2CH3	2-F-phenyl	imidazolyl
		Olizeli -	2-r-phenyi	2-(N-(cyclopropyl-
	193	CH2CH3	2-F-phenyl	methyl)aminomethyl)phenyl
			2-1-phony	2-(N-(cyclobutyl)-
30	194	CH2CH3	2-F-phenyl	aminomethyl)phenyl
			2-1 -phonyi	2-(N-(cyclopentyl)-
	195	CH2CH3	2-F-phenyl	aminomethyl)phenyl
			2-1 -phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	196	CH2CH3	2,6-diF-phenyl	methyl)phenyl
35	197	CH2CH3	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	198	CH2CH3	2.6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	199	CH2CH3	2.6-diF-phenyl	1-pyrrolidinocarbonyl
	200	CH2CH3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
			2,0 dir -pilenyi	2-(N,N-
40	201	CH2CH3	2,6-diF-phenyl	dimethylaminomethyl)phenyl
	202	CH2CH3	2.6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	203	CH2CH3	2,6-diF-phenyl	1-methyl-2-imidazolyl
*	204	CH2CH3	2,6-diF-phenyl	2-methyl-1-imidazolyl
			-,o dii -piiciiyi	2-(dimethylaminomethyl)-1-
45	205	CH2CH3	2,6-diF-phenyl	imidazolyl
			-,o-dii -piiciiyi	2-(N-(cyclopropyl-
	206	CH2CH3	2,6-diF-phenyl	methyl)aminomethyl)phenyl
		3.25	~io-dir shiterial	2-(N-(cyclobutyl)-

 $\mathcal{I}_{p}^{-1}(k,k) = \sum_{i=1}^{p} 2 \log \frac{d}{k}$

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					aminomethyl)phenyl	
		207	CH2	CH3 2,6-diF-phenyl	2-(N-(cyclopentyl)-	
					aminomethyl)phenyl	
	5	208	CH20	CH3 2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl	
		209	CF3	ph eny l	2-(aminosulfonyl)phenyl	
		210	CF3	phenyl	2-(methylaminosulfonyl)phenyl	
		211	CF3	phenyl	1-pyrrolidinocarbonyl	
		212	CF3	phenyl	2-(methylsulfonyl)phenyl	
	10	213	CF3	phenyl	2-(N,N-	
	10	213		phenyi	•	
		214	CF3	phenyl	dimethylaminomethyl)phenyl	
		215	CF3	phenyl	2-(N-pyrrolidinylmethyl)phenyl	
		216	CF3	phenyl	1-methyl-2-imidazolyl	
•	15	217	CF3		2-methyl-1-imidazolyl	•
	15			phenyl	2-(dimethylaminomethyl)-1- imidazolyl	
		218	CF3		2-(N-(cyclopropyl-	
.11 3			•	The state of the s	methyl)aminomethyl)phenyl	r valor i dili agai
		219	CF3	phenyl	2-(N-(cyclobutyl)-	
01,200350	20				aminomethyl)phenyl	
and the second	-			phenyl.	2-(N-(cyclopentyl)-	도로맞으로 기업을 중심한다는 다.
Aberry G. J.	··· :	NER			aminomethyl)phenyl	ant rujevijegyupida.
		221	CF3	phenyl	2-(N-(3-hydroxypyrrolidinyl)-	
					methyl)phenyl	· . ·
	25	222	CF3	2-pyridyl	2-(aminosulfonyl)phenyl	
45 (27)		223	· CF3	2-pyridyl	2-(methylaminosulfonyl)phenyl	4
ervi.	;	224	CF3	2-pyridyl	1-pyrrolidinocarbonyl	
		225	CF3	2-pyridyl	2-(methylsulfonyl)phenyl	
		226	CF3	2-pyridyl	2-(N,N-	
	30				dimethylaminomethyl)phenyl	
-		227	CF3	2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl	
		228	CF3	2-pyridyl	1-methyl-2-imidazolyl	
	•	229	CF3	2-pyridyl	2-methyl-1-imidazolyl	
		230	CF3	2-pyridyl	2-(dimethylaminomethyl)-1-	
	35				imidazolyl	•
		231	CF3	2-pyridyl	2-(N-(cyclopropyl-	
					methyl)aminomethyl)phenyl	
		232	CF3	2-pyridyl	2-(N-(cyclobutyl)-	
				- pyy.	aminomethyl)phenyl	
•	40	233	CF3	2-pyridyl	* **	
			0.5	2-pylldy1	2-(N-(cyclopentyl)-	
		234	CF3	2	aminomethyl)phenyl	
		237	Cro	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-	
		235	CF3	2	methyl)phenyl	
	4 =			3-pyridyl	2-(aminosulfonyl)phenyl	
	45	236	CF3	3-pyridyl	2-(methylaminosulfonyl)phenyl	
		237	CF3	3-pyridyl	1-pyrrolidinocarbonyl	
		238	CF3	3-pyridyl	2-(methylsulfonyl)phenyl	

	239	CF3	3-pyridyl	2-(N,N-
				dimethylaminomethyl)phenyl
	240		3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
	241	CF3	3-pyridyl	1-methyl-2-imidazolyl
5		CF3	3-pyridyl	2-methyl-1-imidazolyl
	243	CF3	3-pyridyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	244	CF3	3-pyridyl	2-(N-(cyclopropyl-
			• •	methyl)aminomethyl)phenyl
10	245	CF3	3-pyridyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	246	CF3	3-pyridyl	2-(N-(cyclopentyl)-
			-	aminomethyl)phenyl
	247	CF3	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
15			•••	methyl)phenyl
	248	CF3	2-pyrimidyl	2-(aminosulfonyl)phenyl
	249	CF3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	250	CF3	2-pyrimidyl	1-pyrrolidinocarbonyl
•	251	CF3	2-pyrimidyl	2-(methylsulfonyl)phenyl
20	252	CF3	2-pyrimidyl	2-(N,N-
				dimethylaminomethyl)phenyl
od i sail disk os	253	CF3	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	254	CF3	2-pyrimidyl	1-methyl-2-imidazolyl
	255	CF3	2-pyrimidyl	2-methyl-1-imidazolyl
25	256	CF3	2-pyrimidyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	257	CF3	2-pyrimidyl	2-(N-(cyclopropyl-
•				methyl)aminomethyl)phenyl
	258	CF3	2-pyrimidyl	2-(N-(cyclobutyl)-
30				aminomethyl)phenyl
	259	259 CF3	2-pyrimidyl	2-(N-(cyclopentyl)-
			•	aminomethyl)phenyl
	260	CF3	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
			•	methyl)phenyl
35	261	CF3	5-pyrimidyl	2-(aminosulfonyl)phenyl
	262	CF3	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	263	CF3	5-pyrimidyl	1-pyrrolidinocarbonyl
	264	CF3	5-pyrimidyl	2-(methylsulfonyl)phenyl
	265 ·	CF3	5-pyrimidyl	2-(N,N-
40				dimethylaminomethyl)phenyl
	266	CF3	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	267	CF3	5-pyrimidyl	l-methyl-2-imidazolyl
	268	CF3	5-pyrimidyl	2-methyl-1-imidazolyl
	269	CF3	5-pyrimidyl	2-(dimethylaminomethyl)-1-
45			• • • • • • • • • • • • • • • • • • • •	imidazolyl
	270	CF3	5-pyrimidyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl

	271	CF3	5-pyrimidyl	2-(N-(cyclobutyi)-
				aminomethyl)phenyl
	272	CF3	5-pyrimidyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
5	273	CF3	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
	274	CF3	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	275	CF3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	276	CF3	2-Cl-phenyl	1-pyrrolidinocarbonyl
10	277	CF3	2-Cl-phenyi	2-(methylsulfonyl)phenyl
	278	CF3	2-Cl-phenyl	2-(N,N-
				dimethylaminomethyl)phenyl
	279	CF3	2-Cl-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	280	CF3	2-Cl-phenyl	1-methyl-2-imidazolyl
15	281	CF3	2-Cl-phenyl	2-methyl-1-imidazolyl
	282	CF3	2-Cl-phenyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	283	CF3	2-Cl-phenyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
20	284	CF3	2-Cl-phenyl	2-(N-(cyclobutyl)-
∵				aminomethyl)phenyl
	285	CF3	2-Cl-phenyl	2-(N-(cyclopentyl)-
		- '		aminomethyl)phenyl
	286	CF3	2-Cl-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
25			1 - 41 - 2	methyl)phenyl
	287	CF3	2-F-phenyl	2-(aminosulfonyl)phenyl
	288	CF3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
•	289	CF3	2-F-phenyl	1-pyrrolidinocarbonyl
-	290	CF3	2-F-phenyl	2-(methylsulfonyl)phenyl
30	291	CF3	2-F-phenyl	2-(N,N-
			•	dimethylaminomethyl)phenyl
	292	CF3	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	29 3	CF3	2-F-phenyl	l-methyl-2-imidazolyl
	294	CF3	2-F-phenyl	2-methyl-1-imidazolyl
35	295	CF3	2-F-phenyl	2-(dimethylaminomethyl)-1-
			•	imidazolyl
	296	CF3	2-F-phenyl	2-(N-(cyclopropyl-
			1	methyl)aminomethyl)phenyl
	297	CF3	2-F-phenyl	2-(N-(cyclobutyl)-
40				aminomethyl)phenyl
	298	CF3	2-F-phenyl	2-(N-(cyclopentyl)-
			- 1. phony:	aminomethyl)phenyl
	299	CF3	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			passage	methyl)phenyl
45	300	CF3	2.6-diF-phenyl	2-(aminosulfonyl)phenyl
	301	CF3	2,6-diF-phenyl	2-(methylaminasylfanyl)
•	302	CF3	2.6-diF-phenyl	2-(methylaminosulfonyl)phenyl
•			2.0-dir-phenyi	l-pyrrolidinocarbonyl

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		303	CF3	2,6-diF-phen	yl 2-(methylsulfonyl)phenyl
	-	304	CF3	2,6-diF-phen	yl 2-(N,N-
		305	CF3	2,6-diF-phen	dimethylaminomethyl)phenyl
	5			2,6-diF-phen	
	_	307		2,6-diF-phen	
		308	_	2,6-diF-pheny	
					imidazolyl
	10	309	CF3	2,6-diF-pheny	'l 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl
		310	CF3	2,6-diF-pheny	2-(N-(cyclobutyl)-
		311	CF3	2,6-diF-pheny	aminomethyl)phenyl l 2-(N-(cyclopentyl)-
				-, our phony	aminomethyl)phenyl
	15	312	CF3	2,6-diF-pheny	l 2-(N-(3-hydroxypyrrolidinyl)-
				_, 	methyl)phenyl
•::		313	SCH3	phenyl	2-(aminosulfonyl)phenyl
A 22		314	SCH3	phenyl	2-(methylaminosulfonyl)phenyl
	•	315	SCH3	phenyl	l-pyrrolidinocarbonyl
المناجعة والمجتب	20	316	SCH3	phenyl	2-(methylsulfonyl)phenyl
.e.		317	SCH3	phenyl	2-(N,N-
AND TOYER	GE GAR	_ 1 _ 1			dimethylaminomethyl)phenyl
		318	SCH3	phenyl	2-(N-pyrrolidinylmethyl)phenyl
		319	SCH3	phenyl	1-methyl-2-imidazolyl
	25	320	SCH3	phenyl	2-methyl-1-imidazolyl
		321	SCH3	phenyl	2-(dimethylaminomethyl)-1-
y . · · ·		222	COTTO		imidazolyl
		322	SCH3	phenyl	2-(N-(cyclopropyl-
	30	323	CCITA		methyl)aminomethyl)phenyl
	30	323	SCH3	phenyl	2-(N-(cyclobutyl)-
		324	SCH3		aminomethyl)phenyl
		324	SCHS	phenyl	2-(N-(cyclopentyl)-
		325	SCH3	nha-vi	aminomethyl)phenyl
	35		BCID	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
		326	SCH3	2 monidad	methyl)phenyl
		327	SCH3	2-pyridyl 2-pyridyl	2-(aminosulfonyl)phenyl
		328	SCH3	2-pyridyl 2-pyridyl	2-(methylaminosulfonyl)phenyl
		329	SCH3	2-pyridyl 2-pyridyl	1-pyrrolidinocarbonyl
	40	330	SCH3	2-pyridyl	2-(methylsulfonyl)phenyl
			3 6 2 2 5	2-pyridyi	2-(N,N-
		331	SCH3	2-pyridyl	dimethylaminomethyl)phenyl
		332	SCH3	2-pyridyl 2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
		333	SCH3	2-pyridyl	1-methyl-2-imidazolyl
	45	334	SCH3	2-pyridyl 2-pyridyl	2-methyl-1-imidazolyl
				- pjj.	2-(dimethylaminomethyl)-1- imidazolyl
•		335	SCH3	2-pyridyl	· 2-Ol-(malananul

SCH3

2-pyridyl

2-(N-(cyclopropyl-

inan mining kalang Janggaran manggaran k

i i sympolidendi Palanahyladis Palanahyladis

> garanie orginia Garanie orginia Friignaaing caan Garanie

				methyl)aminomethyl)phenyl
	336	SCH3	2-pyridyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	337	SCH3	2-pyridyl	2-(N-(cyclopentyl)-
5				aminomethyl)phenyl
	338	SCH3	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
	339	SCH3	3-pyridyl	2-(aminosulfonyl)phenyl
	340	SCH3	3-pyridyl	2-(methylaminosulfonyl)phenyl
10	341	SCH3	3-pyridyl	1-pyrrolidinocarbonyl
	342	SCH3	3-pyridyl	2-(methylsulfonyl)phenyl
	343	SCH3	3-pyridyl	2-(N,N-
			••	dimethylaminomethyl)phenyl
	344	SCH3	3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
15	345	SCH3	3-pyridyl	1-methyl-2-imidazolyl
	346	SCH3	3-pyridyl	2-methyl-1-imidazolyl
	347	SCH3	3-pyridyl	2-(dimethylaminomethyl)-1-
			Desertables.	imidazolyl
	348		3-pyridyl	2-(N-(cyclopropyl-
20			raphiat de co	methyl)aminomethyl)phenyl
: !	349		3-pyridyl	2-(N-(cyclobutyl)-
	250		Marking Commence	aminomethyl)phenyl
	350	SCH3	3-pyridyl	2-(N-(cyclopentyl)-
0.5	251	COTTO	2 11 1	aminomethyl)phenyl
25	351	SCH3	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
	252	COTTO	er egi 1mins eke er Kulon a	methyl)phenyl
•	352 353	SCH3	2-pyrimidyl	2-(aminosulfonyl)phenyl
		SCH3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
20	354 355	SCH3	2-pyrimidyl	1-pyrrolidinocarbonyl
30	355	SCH3	2-pyrimidyl	2-(methylsulfonyl)phenyl
	356	SCH3	2-py rimidy l	2-(N,N-
	357	SCH3	2	dimethylaminomethyl)phenyl
	358	SCH3	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
35	359	SCH3	2-pyrimidyl	1-methyl-2-imidazolyl
33	360	SCH3	2-pyrimidyl	2-methyl-1-imidazolyl
	300	SCID	2-pyrimidyl	2-(dimethylaminomethyl)-1-
	361	SCH3	2-pyrimidyl	imidazolyl
	,501	SCID	2-pyrimidyi	2-(N-(cyclopropyl-
40	362	SCH3	2	methyl)aminomethyl)phenyl
40	302	SCID	2-pyrimidyl	2-(N-(cyclobutyl)-
	363	SCH3	2	aminomethyl)phenyl
	303	SCID	2-pyrimidyl	2-(N-(cyclopentyl)-
	364	SCH3	2	aminomethyl)phenyl
45	304	SCID	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
40	365	פרעי	E	methyl)phenyl
	366	SCH3	5-pyrimidyl	2-(aminosulfonyl)phenyl
	200	SCH3	5-pyrimidyl	2-(methylaminosulfonyl)phenyl

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		367	SCH3	5-pyrimidyl	1-pyrrolidinocarbonyl
		368	SCH3	5-pyrimidyl	2-(methylsulfonyl)phenyl
		369	SCH3	5-pyrimidyl	2-(N,N-
					dimethylaminomethyl)phenyl
	5	370	SCH3	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
		371	SCH3	5-pyrimidyl	1-methyl-2-imidazolyl
		372	SCH3	5-pyrimidyl	2-methyl-1-imidazolyl
		373	SCH3	5-pyrimidyl	2-(dimethylaminomethyl)-1-
				· pyrmady!	imidazolyl
	10	374	SCH3	5-pyrimidyl	2-(N-(cyclopropyl-
			00115	5 pjimmeyi	methyl)aminomethyl)phenyl
		375	SCH3	5-pyrimidyl	
		3.5	50125	- pyrimidyr	2-(N-(cyclobutyl)-
		376	SCH3	5-pyrimidyl	aminomethyl)phenyl
	15		30.2	o pyrimidyr	2-(N-(cyclopentyl)-
		377	SCH3	5-pyrimidyl	aminomethyl)phenyl
		3.7	. 50115	J-pyrmindyr	2-(N-(3-hydroxypyrrolidinyl)-
	• . • •	378	SCH3	2-Cl-phenyl	methyl)phenyl
gradien is		379	SCH3	2-Cl-phenyl	2-(aminosulfonyl)phenyl
tida Parmi T.	20	380	SCH3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
Origen.		381	SCH3	2-Cl-phenyl	1-pyrrolidinocarbonyl
174-1851 (1941) 174-1851 (1941)	- 197 3430 -	382	SCH3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	Servativa.	\$057\$E'''		2-Ci-pheny	2-(N,N
• • • •		383	SCH3	2-Cl-phenyl	dimethylaminomethyl)phenyl
	25	384	SCH3	2-Cl-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	-	. 385	SCH3	2-Cl-phenyl	1-methyl-2-imidazolyl
		386	SCH3	2-Ci-phenyl	2-methyl-1-imidazolyl
		2 TOTA	56225	2 Ci-phony:	2-(dimethylaminomethyl)-1-
		387	SCH3	2-Cl-phenyl	imidazolyl
	30		00.13	2-ci-phenyi	2-(N-(cyclopropyl-
		388	SCH3	2-Cl-phenyl	methyl)aminomethyl)phenyl
			00115	2-Ci-phenyi	2-(N-(cyclobutyl)-
		389	SCH3	2-Cl-phenyl	aminomethyl)phenyl
				2-Ci-phonyi	2-(N-(cyclopentyl)-
	35	390	SCH3	2-Cl-phenyl	aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)-
				2 of phony	
		391	SCH3	2-F-phenyl	methyl)phenyl
		392	SCH3	2-F-phenyl	2-(aminosulfonyl)phenyl
		393	SCH3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	40	394	SCH3	2-F-phenyl	1-pyrrolidinocarbonyl
		395	SCH3	2-F-phenyl	2-(methylsulfonyl)phenyl
			501 2	2-1 -phonyr	2-(N,N-
		396	SCH3	2-F-phenyl	dimethylaminomethyl)phenyl
		397	SCH3	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	45	398	SCH3	2-F-phenyl	1-methyl-2-imidazolyl
		399	SCH3	2-F-phenyl	2-methyl-1-imidazolyl
			JOH	2-1 -phenyl	2-(dimethylaminomethyl)-1-
					imidazolyl

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	40 0	SCH3	2-F-phenyl	2-(N-(cyclopropyl- methyl)aminomethyl)phenyl	
	401	SCH3	2-F-phenyl	2-(N-(cyclobutyl)- aminomethyl)phenyl	
5	402	SCH3	2-F-phenyl	2-(N-(cyclopentyl)- aminomethyl)phenyl	
	403	SCH3	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl	
	404	SCH3	2,6-diF-phenyl	2-(aminosulfonyl)phenyl	
10	405	SCH3	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl	
	406	SCH3	2,6-diF-phenyl	1-pyrrolidinocarbonyl	
	407	SCH3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl	
	408	SCH3	2,6-diF-phenyl	2-(N,N-	
			_,o paoy.	dimethylaminomethyl)phenyl	
15	409	SCH3	2.6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl	
	410	SCH3		l-methyl-2-imidazolyl	
	411:	SCH3		2-methyl-1-imidazolyl	
	412	SCH3		2-(dimethylaminomethyl)-1-	And the second
		garan eye yertir d			a de la
20	413	SCH3	2,6-diF-phenyl		to egge kalay kampang mering
	12	de dans	Salini ulitati kabawa na	methyl)aminomethyl)phenyl	and the state of t
	414	SCH3	2,6-diF-phenyl	2-(N=(cyclobytyl)-	
			z,o-dii -pilonyii a		ing garage per Ge lephone granden Destall
	415	SCH3	2,6-diF-phenyl	- /1 /	the state of the s
25	415	SCIL	2,0-dir -phenyi		
	416.	SCH3		2-(N-(3-hydroxypyrrolidinyl)-	
	•••				The secretary was experienced
	417	SOCH3	phenyl	2-(aminosulfonyl)phenyl	
	418	SOCH3	phenyl	2-(methylaminosulfonyl)phenyl	•
30	419		phonyi		
30		SOCHS	nhenyl	1 marrolidinosorbonul	
	470	SOCH3	phenyl	1-pyrrolidinocarbonyl	·
	420 421	SOCH3	phenyi	2-(methylsulfonyl)phenyl	
	420 421		-	2-(methylsulfonyl)phenyl 2-(N,N-	
	421	SOCH3 SOCH3	phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl	
35	421 422	SOCH3 SOCH3	phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl	
35	421 422 423	SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl	
35	421 422 423 424	SOCH3 SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl	
35	421 422 423	SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1-	
35	421 422 423 424 425	SOCH3 SOCH3 SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl	
	421 422 423 424	SOCH3 SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl-	
35	421 422 423 424 425 426	SOCH3 SOCH3 SOCH3 SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl	
	421 422 423 424 425	SOCH3 SOCH3 SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)-	
	421 422 423 424 425 426 427	SOCH3 SOCH3 SOCH3 SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl	
	421 422 423 424 425 426	SOCH3 SOCH3 SOCH3 SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)-	
40	421 422 423 424 425 426 427 428	SOCH3 SOCH3 SOCH3 SOCH3 SOCH3 SOCH3 SOCH3	phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl	
	421 422 423 424 425 426 427	SOCH3 SOCH3 SOCH3 SOCH3 SOCH3 SOCH3	phenyl phenyl phenyl phenyl phenyl phenyl phenyl phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)-	
40	421 422 423 424 425 426 427 428	SOCH3 SOCH3 SOCH3 SOCH3 SOCH3 SOCH3 SOCH3	phenyl	2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 1-methyl-2-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl	

		421	COCTTO	•	
		431	SOCH3	2-pyridyl	2-(methylaminosulfonyl)phenyl
		432	SOCH3	2-pyridyl	1-pyrrolidinocarbonyl
		433	SOCH3	2-pyridyl	2-(methylsulfonyl)phenyl
		434	SOCH3	2-pyridyl	2-(N,N-
	5		•		dimethylaminomethyl)phenyl
		435	SOCH3	2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
		436	SOCH3	2-pyridyl	1-methyl-2-imidazolyl
		437	SOCH3	2-pyridyl	2-methyl-1-imidazolyl
		438	SOCH3	2-pyridyl	2-(dimethylaminomethyl)-1-
	10				imidazolyl
	•	439	SOCH3	2-pyridyl	2-(N-(cyclopropyl-
				- pj.:-j.	
		440	SOCH3	2-pyridyl	methyl)aminomethyl)phenyl
				2 pyridyr	2-(N-(cyclobutyl)-
	15	441	SOCH3	2-pyridyl	aminomethyl)phenyl
		• • •	БОСП	2-pyridyi	2-(N-(cyclopentyl)-
		442	SOCH3	2	aminomethyl)phenyl
-			SOCHS	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
	ra ita		SOCH3	2	methyl)phenyl
	30	444	SOCH3	3-pyridyl	2-(aminosulfonyl)phenyl
	20			3-pyridyl	2-(methylaminosulfonyl)phenyl
Mary Ardele		440	SOCH3	3-pyridyl	1-pyrrolidinocarbonyl
21.11 (1.11)。 (6.5)		4.45	SOCH3	3-pyridyl	2-(methylsulfonyl)phenyl
) comi	447	SOCH3	3-pyridyl	2-(N,N-
		440			dimethylaminomethyl)phenyl
	25	448	SOCH3	3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
4-3-		449	SOCH3	3-pyridyl	1-methyl-2-imidazolyl
Service in	enga, Er	450	SOCH3	3-pyridyl	2-methyl-1-imidazolyl
i i i		451	SOCH3	3-pyridyl	2-(dimethylaminomethyl)-1-
					imidazolyl
	30	452	SOCH3	3-pyridyl	2-(N-(cyclopropyl-
					methyl)aminomethyl)phenyl
-		453	SOCH3	3-pyridyl	2-(N-(cyclobutyl)-
					aminomethyl)phenyl
		454	SOCH3	3-pyridyl	2-(N-(cyclopentyl)-
	35				aminomethyl)phenyl
		455	SOCH3	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
					methyl)phenyl
		456	SOCH3	2-pyrimidyl	2-(aminosulfonyl)phenyl
		457	SOCH3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	40	458	SOCH3	2-pyrimidyl	
		459	SOCH3	2-pyrimidyl	1-pyrrolidinocarbonyl
		460	SOCH3	2-pyrimidyl	2-(methylsulfonyl)phenyl
			55012	2-pyrmidyi	2-(N,N-
		461	SOCH3	2-popinida1	dimethylaminomethyl)phenyl
	45	462	SOCH3	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
		463	SOCH3	2-pyrimidyl	l-methyl-2-imidazolyl
		464		2-pyrimidyl	2-methyl-1-imidazolyl
		-10-1	SOCH3	2-pyrimidyl	2-(dimethylaminomethyl)-1-
				•	

				imidazolyl
	465	SOCH3	2-pyrimidyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	466	SOCH3	2-pyrimidyl	2-(N-(cyclobutyl)-
5				aminomethyl)phenyl
	467	SOCH3	2-pyrimidyl	2-(N-(cyclopentyl)-
			-	aminomethyl)phenyl
	468	SOCH3	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
- 10	469	SOCH3	5-pyrimidyl	methyl)phenyl 2-(aminosulfonyl)phenyl
10	470	SOCH3	5-pyrimidyl	
	471	SOCH3	5-pyrimidyl	2-(methylaminosulfonyl)phenyl l-pyrrolidinocarbonyl
	472	SOCH3	5-pyrimidyl	
	473	SOCH3	5-pyrimidyl	2-(methylsulfonyl)phenyl
15	175	500115	- J-pyimidyi	2-(N,N-
	474	SOCH3	5-pyrimidyl	dimethylaminomethyl)phenyl
	475	SOCH3	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	476	SOCH3	5-pyrimidyl	1-methyl-2-imidazolyl
•	477	SOCH3	5-pyrimidyl	2-methyl-1-imidazolyl
20.			J-pyrinndyr	2-(dimethylaminomethyl)-1- imidazolyl
20	478			
		SOCIE	э-рупшауі	
	479	SOCH3	5-pyrimidyl	methyl)aminomethyl)phenyl
*		SOCIL	3-pyrimidyi	2-(14-(cyclobaly))-
25 [.]	480	SOCH3	5	aminomethyl)phenyl
23	400	SOCIE	5-pyrimidyl	2-(N-(cyclopentyl)-
	481	SOCH3	5-pyrimidyl	aminomethyl)phenyl
		BOCID.	э-ругишцуг	2 (11 (3 hydroxypyrrondinyr)-
	482	SOCH3	2-Cl-phenyl	methyl)phenyl
30	483	SOCH3	2-Cl-phenyl	2-(aminosulfonyl)phenyl
30	484	SOCH3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	485	SOCH3	2-Cl-phenyl	1-pyrrolidinocarbonyl
	486	SOCH3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	400	SOCIE	2-Ci-phenyi	2-(N,N-
35	487	SOCH3	2 (1	dimethylaminomethyl)phenyl
20	488	SOCH3	2-Cl-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	489	SOCH3	2-Cl-phenyl	1-methyl-2-imidazolyl
	490	SOCH3	2-Cl-phenyl	2-methyl-1-imidazolyl
	770	SOCID	2-Cl-phenyl	2-(dimethylaminomethyl)-1-
40	491	SOCH3	2.61	imidazolyl
40	471	SUCHS	2-Cl-phenyl	2-(N-(cyclopropyl-
	402	COOTTO		methyl)aminomethyl)phenyl
	492	SOCH3	2-Cl-phenyl	2-(N-(cyclobutyl)-
	403	000		aminomethyl)phenyl
4.5	493	SOCH3	2-Cl-phenyl	2-(N-(cyclopentyl)-
45	404	600777		aminomethyl)phenyl
•	494	SOCH3	2-Cl-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl

		495	SOCH3	2-F-phenyl	2-(aminosulfonyl)phenyl
		496	SOCH3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
		497	SOCH3	2-F-phenyl	1-pyrrolidinocarbonyl
		498	SOCH3	2-F-phenyl	2-(methylsulfonyl)phenyl
	5		SOCH3	2-F-phenyl	
	•	.,,	500115	2-1 -pitchyt	2-(N,N-
		500	SOCH3	2 E shamed	dimethylaminomethyl)phenyl
		501		2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
				2-F-phenyl	1-methyl-2-imidazolyl
		502	SOCH3	2-F-phenyl	2-methyl-1-imidazolyl
	10	503	SOCH3	2-F-phenyl	2-(dimethylaminomethyl)-1-
					imidazolyl
		504	SOCH3	2-F-phenyl	2-(N-(cyclopropyl-
				-	methyl)aminomethyl)phenyl
		505	SOCH3	2-F-phenyl	2-(N-(cyclobutyl)-
	15				aminomethyl)phenyl
		506	SOCH3	2-F-phenyl	2-(N-(cyclopentyl)-
					aminomethyl)phenyl
		507	SOCH3	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
		:. " :			methyl)phenyl
	20	508	SOCH3	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
		509	SOCH3	2,6-diF-phenyl	2-(mathylomino sulfaced)-1
g dineral.	A PERMANENT	510	SOCH3		2-(methylaminosulfonyl)phenyl
		511	SOCH3	2,6-diF-phenyl	l-pyrrolidinocarbonyl
	•	512	SOCH3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	25	J12	BOCID	2,0-dir-phenyi	2-(N,N-
	23	513	SOCH3	26 375 3 3	dimethylaminomethyl)phenyl
*** *		514	SOCH3	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	i satirtije.	515		2.6-diF-phenyl	1-methyl-2-imidazolyl
			SOCH3	2,6-diF-phenyl	2-methyl-1-imidazolyl
•	20	516	SOCH3	2,6-diF-phenyl	2-(dimethylaminomethyl)-1-
	30	c17	CO C****		imidazolyl
		517	SOCH3	2,6-diF-phenyl	2-(N-(cyclopropyl-
					methyl)aminomethyl)phenyl
		518	SOCH3	2,6-diF-phenyl	2-(N-(cyclobutyl)-
•					aminomethyl)phenyl
	35	519	SOCH3	2,6-diF-phenyl	2-(N-(cyclopentyl)-
					aminomethyl)phenyl
		520	SOCH3	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
		<i>;</i>			methyl)phenyl
		521	SO2CH3	ph eny l	2-(aminosulfonyl)phenyl
	40	522	SO2CH3	phenyl	2-(methylaminosulfonyl)phenyl
		523	SO2CH3	phenyl	1-pyrrolidinocarbonyl
	:	524	SO2CH3	phenyl	2-(methylsulfonyl)phenyl
		525	SO2CH3	phenyl	2-(N,N-
			-		dimethylaminomethyl)phenyl
	45	526 .	SO2CH3	phenyl	2-(N-pyrrolidinylmethyl)phenyl
		527	SO2CH3	phenyl	1-methyl-2-imidazolyl
		528	SO2CH3	phenyl	2 methyl 1 imid==1-1
				Pricity i	2-methyl-1-imidazolyl

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•				
	529	SO2CH3	phenyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	530	SO2CH3	phenyl	2-(N-(cyclopropyl- methyl)aminomethyl)phenyl
-	521	COSCUS	-bl	
5	<i>5</i> 31	SO2CH3	phenyl	2-(N-(cyclobutyl)- aminomethyl)phenyl
	532	SO2CH3	phenyl	
	332	302CH3	buenta	2-(N-(cyclopentyl)- aminomethyl)phenyl
	533	SO2CH3	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
10	333	5020115	pilelly	methyl)phenyl
10	534	SO2CH3	2 monidad	
			2-pyridyl	2-(aminosulfonyl)phenyl
	535	SO2CH3	2-pyridyl	2-(methylaminosulfonyl)phenyl
	536	SO2CH3	2-pyridyl	1-pyrrolidinocarbonyl
	537	SO2CH3	2-pyridyl	2-(methylsulfonyl)phenyl
15	538	SO2CH3	2-pyridyl	2-(N,N-
				dimethylaminomethyl)phenyl
	539	SO2CH3	2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
	540			reading 1-methyl-2-imidazolyl
:	541	SO2CH3	2-pyridyl	2-methyl-1-imidazolyl
20		SO2CH3	= 2-nyridyl	2-incuryi-1-initiazoryi 2-(dimethylaminomethyl)-1-
,/19.3	J-12	The Market	noseries.	imidazolyl imidazolyl
	5/13	SOSCUS	e de la companya de La companya de la co	
	243	SOZURBA	z-pyridyt	TEATLY IN 2-(N-(cyclopropy)
				methyl)aminomethyl)phenyl
	544	SO2CH3	2-pyridyl	2-(N-(cyclobutyl)-
25		•		aminomethyl)phenyl
	54 5 ·		2-pyridyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
	546	SO2CH3	2-pyridyl	2-(N-(3-hydroxypyπolidinyl)-
				methyl)phenyl
30	547	SO2CH3	3-pyridyl	2-(aminosulfonyl)phenyl
	548	SO2CH3	3-pyridyl	2-(methylaminosulfonyl)phenyl
•	549	SO2CH3	3-pyridyl	1-pyrrolidinocarbonyl
	550	SO2CH3	3-pyridyl	2-(methylsulfonyl)phenyl
	551	SO2CH3	3-pyridyl	
35	<i>331</i>	OOZCII	3-pyrrdyr	2-(N,N-
33	552	SO2CH3	2	dimethylaminomethyl)phenyl
			3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
	553	SO2CH3	3-pyridyl	l-methyl-2-imidazolyl
	554	SO2CH3	3-pyridyl	2-methyl-1-imidazolyl
	555	SO2CH3	3-pyridyl	2-(dimethylaminomethyl)-1-
40				imidazolyl
	556	SO2CH3	3-pyridyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	557	SO2CH3	3-pyridyl	2-(N-(cyclobutyl)-
			- pylidyi	
45	558	SO2CH3	2	aminomethyl)phenyl
4 0	JJ0	302CH3	3-pyridyl	2-(N-(cyclopentyl)-
•	550	5020112		aminomethyl)phenyl
	559	SO2CH3	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-

				methyl)phenyl
•	560	SO2CH3	2-pyrimidyl	2-(aminosulfonyl)phenyl
	561	SO2CH3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	562	SO2CH3	2-pyrimidyl	1-pyrrolidinocarbonyl
	5 563	SO2CH3	2-pyrimidyl	2-(methylsulfonyl)phenyl
	564	SO2CH3	2-pyrimidyl	2-(N,N-
		•	•	dimethylaminomethyl)phenyl
	565	SO2CH3	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	566	SO2CH3	2-pyrimidyl	1-methyl-2-imidazolyl
1	0 567	SO2CH3	2-pyrimidyl	2-methyl-1-imidazolyl
	568	SO2CH3	2-pyrimidyl	2-(dimethylaminomethyl)-1-
			10	imidazolyl
	569	SO2CH3	2-pyrimidyl	2-(N-(cyclopropyl-
			1,	methyl)aminomethyl)phenyl
15	5 570	SO2CH3	2-pyrimidyl	2-(N-(cyclobutyl)-
			10	aminomethyl)phenyl
**************************************	571	SO2CH3	2-pyrimidyl	2-(N-(cyclopentyl)-
eran in				aminomethyl)phenyl
Service Comment	572	SO2CH3	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)
20		Same Carry		methyl)phenyl
Assista open			5-pyrimidyl	2-(aminosulfonyl)phenyl
distribution of the contract o		SO2CH3		2-(methylaminosulfonyl)phenyl
8	575	SO2CH3		7. 7. 7.
	576	SO2CH3	5-pyrimidyl	2-(methylsulfonyl)phenyl
25	577	SO2CH3	5-pyrimidyl	2-(N,N-
			- P yy-	dimethylaminomethyl)phenyl
	578	SO2CH3	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	579	SO2CH3	5-pyrimidyl	1-methyl-2-imidazolyl
	580	SO2CH3	5-pyrimidyl	2-methyl-1-imidazolyl
30	58 1	SO2CH3	5-pyrimidyl	2-(dimethylaminomethyl)-1-
			17	imidazolyl
	582	SO2CH3	5-pyrimidyl	2-(N-(cyclopropyl-
			1,	methyl)aminomethyl)phenyl
	583	SO2CH3	5-pyrimidyl	2-(N-(cyclobutyl)-
35			10	aminomethyl)phenyl
	584	SO2CH3	5-pyrimidyl	2-(N-(cyclopentyl)-
•				aminomethyl)phenyl
	585	SO2CH3	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
	٠.			methyl)phenyl
40	586	SO2CH3	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	587	SO2CH3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	588	SO2CH3	2-Cl-phenyl	1-pyrrolidinocarbonyl
	589	SO2CH3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	590	SO2CH3	2-Cl-phenyl	2-(N,N-
45			F J.	dimethylaminomethyl)phenyl
	591	SO2CH3	2-Cl-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	592	SO2CH3	2-Cl-phenyl	1-methyl-2-imidazolyl
			prioriyi	r-meury-2-mindazoryi

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	59 3	SO2CH3	2-Cl-phenyl	2-methyl-1-imidazolyl
	594	SO2CH3	2-Cl-phenyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	595	SO2CH3	2-Cl-phenyl	2-(N-(cyclopropyl-
5			• •	methyl)aminomethyl)phenyl
	59 6	SO2CH3	2-Cl-phenyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	597	SO2CH3	2-Cl-phenyl	2-(N-(cyclopentyl)-
			- O. phony.	aminomethyl)phenyl
10	598	SO2CH3	2-Cl-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	3,0	5020115	2-Ci-phonyi	methyl)phenyl
	599	SO2CH3	2-F-phenyl	
	600	SO2CH3	2-F-phenyl	2-(aminosulfonyl)phenyl
	601	SO2CH3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
15	602	SO2CH3	2-F-phenyl	1-pyrrolidinocarbonyl
1.5	603	SO2CH3	2-F-phenyl	2-(methylsulfonyl)phenyl
•		302CH3	z-r-phenyi	2-(N,N-
•	604	SO2CH3	2 E = h====1	dimethylaminomethyl)phenyl
	·· 605		2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
20	606			l-methyl-2-imidazolyl
20			2-F-phenyl	2-methyl-1-imidazolyl
	607		2-F-phenyl	2-(dimethylaminomethyl)-1-
taribi di				ा विक्र imidazolyle । विकर्ण विकर्ण क्षेत्रकार विकास के अस्ति विकरण कि
	608	SO2CH3	2-F-phenyl	2-(N-(cyclopropyl-
	609	COZOTTA	25 1 1	methyl)aminomethyl)phenyl
25	009	SO2CH3	2-F-phenyl	2-(N-(cyclobutyl)-
	610	COOCITY	2.7	aminomethyl)phenyl
	610	SO2CH3	2-F-phenyl	2-(N-(cyclopentyl)-
	611	0000110	0.7	aminomethyl)phenyl
20	611	SO2CH3	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
30	612	0000113	26 177 1	methyl)phenyl
	612	SO2CH3	2.6-diF-phenyl	2-(aminosulfonyl)phenyl
	613	SO2CH3	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
•	614	SO2CH3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	615	SO2CH3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
35	616	SO2CH3	2,6-diF-phenyl	2-(N,N-
	C17	600 CTT	- 4 4	dimethylaminomethyl)phenyl
	617	SO2CH3	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	618	SO2CH3	2,6-diF-phenyl	l-methyl-2-imidazolyl
	619	SO2CH3	2,6-diF-phenyl	2-methyl-1-imidazolyl
40	620	SO2CH3	2,6-diF-phenyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	621	SO2CH3	2,6-diF-phenyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	622	SO2CH3	2,6-diF-phenyl	2-(N-(cyclobutyl)-
45				aminomethyl)phenyl
•	623	SO2CH3	2,6-diF-phenyl	2-(N-(cyclopentyl)-
•				aminomethyl)phenyl
				W VAIT TO W

	624	SO2C	H3 2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl
	625	Cl	phenyl	2-(aminosulfonyl)phenyl
	626	Cl	phenyl	2-(methylaminosulfonyl)phenyl
5	627	Cl	phenyl	1-pyrrolidinocarbonyl
	628	Cl	phenyl	2-(methylsulfonyl)phenyl
	629	Cl	phenyl	
	4.	Ċ.	риспут	2-(N,N-
	630	Cl	phenyl	dimethylaminomethyl)phenyl
10	631	Cl	phenyl	2-(N-pyrrolidinylmethyl)phenyl
10	632	Cl		1-methyl-2-imidazolyl
	633	Cl	phenyl	2-methyl-1-imidazolyl
	033	Ci	phenyl	2-(dimethylaminomethyl)-1-
	624	CI	•	imidazolyl
-	634	Cl	phenyl	2-(N-(cyclopropyl-
15				methyl)aminomethyl)phenyl
	635	Cl	phenyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	636	Cl	phenyl	2-(N-(cyclopentyl)-
		• • • •		aminomethyl)phenyl
20	637	· Cl	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	· :	1000		methyl)phenyl
	638	Cl ;		2-(aminosulfonyl)phenyl
	639	CI	2-pyridyl	2-(methylaminosulfonyl)phenyl
	640	Cl	2-pyridyl	1-pyrrolidinocarbonyl
25	641	Cl	2-pyridyl	2-(methylsulfonyl)phenyl
	642	Cl	2-pyridyl	2-(N,N-
				dimethylaminomethyl)phenyl
	643	Cl	2-pyridyl	2-(N-pytrolidinylmethyl)phenyl
	644	Cl	2-pyridyl	1-methyl-2-imidazolyl
30	645	Cl	2-pyridyl	
	646	Cl	2-pyridyl	2-methyl-1-imidazolyl
			2-pyrrdyr	2-(dimethylaminomethyl)-1-
	647	CI	2-pyridyl	imidazolyl
	0.,	Cı	2-pyridyr	2-(N-(cyclopropyl-
35	648	CI	2	methyl)aminomethyl)phenyl
-	0.10	Ci	2-pyridyl	2-(N-(cyclobutyl)-
	649	Cl	2 111	aminomethyl)phenyl
	043	CI	2-pyridyl	2-(N-(cyclopentyl)-
	650	C)		aminomethyl)phenyl
	650	Cl	2-pyridyl	2-(N-(3-hydroxypyπolidinyl)-
40				methyl)phenyl
	651	Cl	3-pyridyl	2-(aminosulfonyl)phenyl
	652	Cl	3-pyridyl	2-(methylaminosulfonyl)phenyl
	653	Cl	3-pyridyl	1-pyrrolidinocarbonyl
	654	CI	3-pyridyl	2-(methylsulfonyl)phenyl
45	655	Cl	3-pyridyl	2-(N,N-
			<u>-</u> •	dimethylaminomethyl)phenyl
	656	CI	3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
			* * · · · · · ·	- (- pyrionamymichyr)phenyr

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	12				
		657	Cl	3-pyridyl	1-methyl-2-imidazolyl
		658	Cl	3-pyridyl	2-methyl-1-imidazolyl
		659	Cl	3-pyridyl	2-(dimethylaminomethyl)-1- imidazolyl
	5	660	Cl	3-pyridyl	2-(N-(cyclopropyl-
	_	000	C.	э-рунаут	
		661	CI	3-pyridyl	methyl)aminomethyl)phenyl
		001	Cı	э-рупаут	2-(N-(cyclobutyl)-
		662	CI	3-pyridyl	aminomethyl)phenyl
	10	002	Cı	3-pyridyr	2-(N-(cyclopentyl)-
	10	663	Cl	3-pyridyl	aminomethyl)phenyl
		005	Cı	3-pyridyi	2-(N-(3-hydroxypyrrolidinyl)-
		664	Cl	2-pyrimidyl	methyl)phenyl
		665	CI	2-pyrimidyl 2-pyrimidyl	2-(aminosulfonyl)phenyl
	15	666	Cl	2-pyrimidyl 2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	+3	667	CI		1-pyrrolidinocarbonyl
:		668	Cl	2-pyrimidyl	2-(methylsulfonyl)phenyl
•		000	Ci	2-pyrimidyl	2-(N,N-
3. A 2.2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		669	Cl	and the second second	dimethylaminomethyl)phenyl
$\min(1/2\eta)$	30	670	CI	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
DAP :	20	671	Cl	2-pyrimidyl	1-methyl-2-imidazolyl
wdy:	٠٠٠.	672	Cl.		2-methyl-1-imidazolyl
morne)-	18 1 1 L	.,. 0/2 ;	C1	2-pyrimidyl	2-(dimethylaminomethyl)-1-
	•	673	Cl	and the second second	imidazolyl
	25	0/3	Cı	2-pyrimidyl	2-(N-(cyclopropyl-
•	25	674	CI	2	methyl)aminomethyl)phenyl
	11.76	0/4	Ci	2-pyrimidyl	2-(N-(cyclobutyl)-
	•	675	Cl	or o management	dimionicuty 1) pricity i
		0/3	Ci	2-pyrimidyl	2-(N-(cyclopentyl)-
	30	676	Cl	2:-:	aminomethyl)phenyl
	30	070	Cı	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
		677	Cl	£	methyl)phenyl
		678	CI	5-pyrimidyl	2-(aminosulfonyl)phenyl
		679	Cl	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	35	680	Cl	5-pyrimidyl	1-pyrrolidinocarbonyl
	33	681	Cl	5-pyrimidyl	2-(methylsulfonyl)phenyl
		061	Cı	5-pyrimidyl	2-(N,N-
		682	Cl	£:: 3 .t	dimethylaminomethyl)phenyl
		683	CI	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	40	684	CI	5-pyrimidyl	1-methyl-2-imidazolyl
	40	685		5-pyrimidyl	2-methyl-1-imidazolyl
		005	Cl	5-pyrimidyl	2-(dimethylaminomethyl)-1-
		686	Cl	F ' '11	imidazolyl
		000	CI	5-pyrimidyl	2-(N-(cyclopropyl-
	45	607	CI		methyl)aminomethyl)phenyl
	45	687	Cl	5-pyrimidyl	2-(N-(cyclobutyl)-
		688	CI	<i>-</i>	aminomethyl)phenyl
		U00	Cl	5-pyrimidyl	2-(N-(cyclopentyl)-

					aminomethyl)phenyl
		689	Cl	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
		690	CI	2-Cl-phenyl	methyl)phenyl
	5	691	Cl	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	-	692	CI	• •	2-(methylaminosulfonyl)phenyl
		693	CI	2-Cl-phenyl	1-pyrrolidinocarbonyl
		694	Cl	2-Cl-phenyl	2-(methylsulfonyl)phenyl
		U 74	Ci	2-Cl-phenyl	2-(N,N-
	10	695	CI	2.611	dimethylaminomethyl)phenyl
	10		Cl	2-Cl-phenyl	2-(N-pyrrolidinylmethyl)phenyl
		696	Cl	2-Cl-phenyl	1-methyl-2-imidazolyl
		697	Cl	2-Cl-phenyl	2-methyl-1-imidazolyl
		698	Cl	2-El-phenyl	2-(dimethylaminomethyl)-1- imidazolyl
	15	699	CI	2-Cl-phenyl	2-(N-(cyclopropyl-
					methyl)aminomethyl)phenyl
		700	Cl	2-Cl-phenyl	2-(N-(cyclobutyl)-
19		•			aminomethyl)phenyl
		701	Cl	2-Cl-phenyl	2-(N-(cyclopentyl)-
1	20			to the provided to the Company of t	aminomethyl)phenyl
AND STATE OF STATE		702	Cl	2-Cl-phenyl	
	1/11 11 + 1 	7.1"×1		र्वाक के अन्य के लि वे किया है है । अने किया है किया है है । अने किया है किया है किया है है । अने किया है किया जिल्हा	
int.	'''!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	703	Cl	2-F-phenyl	2-(aminosulfonyl)phenyl
	,	704	Cl	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	25	705	Cl	2-F-phenyl	1-pyrrolidinocarbonyl
		706	Cl	2-F-phenyl	2-(methylsulfonyl)phenyl
	· .'- ·	707	Cl:	2-F-phenyl	2-(N;N-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-
		1 ¹			dimethylaminomethyl)phenyl
		708	CI	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	30	709	Cl	2-F-phenyl	1-methyl-2-imidazolyl
		710	Cl	2-F-phenyl	2-methyl-1-imidazolyl
		711	Cl	2-F-phenyl	2-(dimethylaminomethyl)-1-
				.	imidazolyl
		712	Cl	2-F-phenyl	2-(N-(cyclopropyl-
	35			,,	methyl)aminomethyl)phenyl
		713	Cl	2-F-phenyl	2-(N-(cyclobutyl)-
	•		•	= - F y	aminomethyl)phenyl
		714	Cl	2-F-phenyl	2-(N-(cyclopentyl)-
				p	aminomethyl)phenyl
	40	715	Cl	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
				21 phony?	methyl)phenyl
		716	Cl	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
		717	Cl	2.6-diF-phenyl	
		718	CI	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
4	15	719	Cl	2,6-dif-phenyl	1-pyrrolidinocarbonyl
•	_	720	CI	2.6-diF-phenyl	2-(methylsulfonyl)phenyl
•				2.0-dir -phenyi	2-(N,N-
					dimethylaminomethyl)phenyl

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	721	Cl	2.6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	722	Cl ·	2.6-diF-phenyl	l-methyl-2-imidazolyl
	723	Cl	2,6-diF-phenyl	2-methyl-1-imidazolyl
5	724	Cl	2,6-diF-phenyl	2-(dimethylaminomethyl)-1- imidazolyl
	72 5	Cl	2,6-diF-phenyl	2-(N-(cyclopropyl- methyl)aminomethyl)phenyl
	726	Cl	2,6-diF-phenyl	2-(N-(cyclobutyl)- aminomethyl)phenyl
10	<i>7</i> 27	Cl	2,6-diF-phenyl	2-(N-(cyclopentyl)- aminomethyl)phenyl
	728	Cl	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl
	729	F	phenyl	2-(aminosulfonyl)phenyl
15	730	F		2-(methylaminosulfonyl)phenyl
	731	F		l-pyrrolidinocarbonyl
				2-(methylsulfonyl)phenyl
	733	F		2-(M,N-
				dimethylaminomethyl)phenyl
20	734		nhenvl	2-(N-pyrrolidinylmethyl)phenyl
20	735	n a p ierte.	phony!	1-methyl-2-imidazolyl
e de la composición del composición de la compos	736	F	The share of the same of the s	2-methyl-1-imidazolyl
11, 11, 11, 11, 11, 11, 11, 11, 11, 11,	737	F		2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl
25	738	F	phenyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	739	F	tiesse phenyl e til e ent	2-(N-(cyclobutyl)-
• .		#####	arm î î .	aminomethyl)phenyl
	740	F	phenyl	2-(N-(cyclopentyl)-
30			•	aminomethyl)phenyl
	741	. F	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
	742	F	2-pyridyl	2-(aminosulfonyl)phenyl
•	743	F	2-pyridyl	2-(methylaminosulfonyl)phenyl
35	744	F	2-pyridyl	l-pymolidinocarbonyl
	745	F	2-pyridyl	2-(methylsulfonyl)phenyl
	746	F	2-pyridyl	2-(N,N-
		_		dimethylaminomethyl)phenyl
	747	F	2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
40	748	F	2-pyridyl	1-methyl-2-imidazolyl
	749	F	2-pyridyl	2-methyl-1-imidazolyl
	750	F	2-pyridyl	2-(dimethylaminomethyl)-1-
		•	2-pyridyr	imidazolyl
	75 1	F	2-pyridyl	2-(N-(cyclopropyl-
45		•	2 pyriayi	methyl)aminomethyl)phenyl
	752	F	2-pyridyl	2-(N-(cyclobutyl)-
		•	z-pynayı	
	٠			aminomethyl)phenyl

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		_			
	75 3	F	2-pyridyl	2-(N-(cyclopentyl)-	
•			•	aminomethyl)phenyl	
	754	F	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-	
				methyl)phenyl	
5	755	F	3-pyridyl	2-(aminosulfonyl)phenyl	
	756	F	3-pyridyl	2-(methylaminosulfonyl)phenyl	
	757	F	3-pyridyl	l-pyrrolidinocarbonyl	
	758	F	3-pyridyl	2-(methylsulfonyl)phenyl	
	759	F	3-pyridyl	2-(M;N-	
10		-	5 pyridyr	·	
	760	F	3-puridul	dimethylaminomethyl)phenyl	
	761	F	3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl	
	762	F	3-pyridyl	1-methyl-2-imidazolyl	
•	763		3 - pyridyl	2-methyl-1-imidazolyl	
	. /03	F	3-pyridyl	2-(dimethylaminomethyl)-1-	
15,	364			imidazolyl	
	764	. F	3-pyridyl	2-(N-(cyclopropyl-	
Y			•	methyl)aminomethyl)phenyl	
	765	F	. 3-pyridyl	2-(N-(cyclobutyl)-	
	4		* * * * * * * * * * * * * * * * * * * *	aminomethyl)phenyl	
20	766	F	3-pyridyl	2-(N-(cyclopentyl)-	
				aminomethyl)phenyl	100
St. Street Street	767	F	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-	
	1 ,1			methyl)phenyl	
	768	F	2-pyrimidyl	2-(aminosulfonyl)phenyl	
25	769	F	2-pyrimidyl	2-(methylaminosulfonyl)phenyl	
	770	F	2-pyrimidyl	• • • • • • • • • • • • • • • • • • • •	
	771	F	2-pyrimidyl	1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl	
	772	F	2-pyrimidyl	2-(N;N-	
		_	2 pyrianayr	· · · · · · · · · · · · · · · · · · ·	
30	773	F	2-pyrimidyl	dimethylaminomethyl)phenyl	
	774	F	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl	
	775	F		l-methyl-2-imidazolyl	
	776	F	2-pyrimidyl	2-methyl-1-imidazolyl	
	,,,	1	2-pyrimidyl	2-(dimethylaminomethyl)-1-	
35	777	F	2	imidazolyl	
	///	r	2-pyrimidyl	2-(N-(cyclopropyl-	
	770	_		methyl)aminomethyl)phenyl	
	778	F	2-pyrimidyl	2-(N-(cyclobutyl)-	
		_		aminomethyl)phenyl	
	779	F	2-pyrimidyl	2-(N-(cyclopentyl)-	
40				aminomethyl)phenyl	
	780	F	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-	
				methyl)phenyl	
	78 1	F	5-pyrimidyl	2-(aminosulfonyl)phenyl	
	782	F	5-pyrimidyl	2-(methylaminosulfonyl)phenyl	
45	783	F	5-pyrimidyl	1-pyrrolidinocarbonyl	
	784	F	5-pyrimidyl		
	785	F	5-pyrimidyl 5-pyrimidyl	2-(methylsulfonyl)phenyl 2-(N.N-	
		-	o-byimmayi	~-(1N'1N-	

					dimethylaminomethyl)phenyl
		786	F	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
		787	F	5-pyrimidyl	1-methyl-2-imidazolyl
		788	F	5-pyrimidyl	2-methyl-1-imidazolyl
	5	789	F	5-pyrimidyl	2-(dimethylaminomethyl)-1-
			-	1,	imidazolyl
		7 9 0	F	5-pyrimidyl	2-(N-(cyclopropyl-
			_	· p/	methyl)aminomethyl)phenyl
		791	F	5-pyrimidyl	2-(N-(cyclobutyl)-
	10		_	o pyrmay.	aminomethyl)phenyl
		792	F	5-pyrimidyl	2-(N-(cyclopentyl)-
			_	· py	aminomethyl)phenyl
		793	F	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
				- F J	methyl)phenyl
	15	794	F	2-F-phenyl	2-(aminosulfonyl)phenyl
		795	F	2-F-phenyl	2-(methylaminosulfonyl)phenyl
		796	· F	2-F-phenyl	1-pyrrolidinocarbonyl
		797	F.	2-F-phenyl	2-(methylsulfonyl)phenyl
		798	·F	2-F-phenyl	2-(N,N-
	. 20		100	on a complete primaria de la comp	dimethylaminomethyl)phenyl
		::799···	F	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
30.5		800	as F . s.	2-F-phenyl	1-methyl-2-imidazolyl
		801	F	2-F-phenyl	2-methyl-1-imidazolyl
		802	. F	2-F-phenyl	2-(dimethylaminomethyl)-1-
	25				imidazolyl
		803	F	2-F-phenyl	2-(N-(cyclopropyl-
			:	. १५४ (१७७४) विकास विकास विकास है ५० । ५०	methyl)aminomethyl)phenyl
	•	804	F	2-F-phenyl	2-(N-(cyclobutyl)-
			٠		aminomethyl)phenyl
	30	80 5	F	2-F-phenyl	2-(N-(cyclopentyl)-
			_	·	aminomethyl)phenyl
		806	F	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			_		methyl)phenyl
		807	F	2-F-phenyl	2-(aminosulfonyl)phenyl
	35	808	F	2-F-phenyl	2-(methylaminosulfonyl)phenyl
		809	F F	2-F-phenyl	1-pyrrolidinocarbonyl
		810 811	r F	2-F-phenyl	2-(methylsulfonyl)phenyl
		011	r	2-F-phenyl	2-(N,N-
	4.0	812	E	25 1	dimethylaminomethyl)phenyl
	40	813	F F	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
		814	·F	2-F-phenyl	1-methyl-2-imidazolyl
		815	F	2-F-phenyl	2-methyl-1-imidazolyl
		917	Г	2-F-phenyl	2-(dimethylaminomethyl)-1-
	45	816	F	2 Fh 1	imidazolyl
	4.0	910	r	2-F-phenyl	2-(N-(cyclopropyl-
		817	F	2 F	methyl)aminomethyl)phenyl
		01/	Г	2-F-phenyl	2-(N-(cyclobutyl)-

					aminomethyl)phenyl
		818	F	2-F-phenyl	2-(N-(cyclopentyl)-
					aminomethyl)phenyl
		819	F	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	5				methyl)phenyl
		820	F	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
		821	F	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
		822	F	2,6-diF-phenyl	1-pyrrolidinocarbonyl
		82 3	F	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	10	824	F	2,6-diF-phenyl	2-(N,N-
					dimethylaminomethyl)phenyl
		82 5	F	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
		826	F	2,6-diF-phenyl	l-methyl-2-imidazolyl
		827	F	2,6-diF-phenyl	2-methyl-1-imidazolyl
	15	828	F	2,6-diF-phenyl	2-(dimethylaminomethyl)-1-
				- •	imidazolyl
		82 9	F	2.6-diF-phenyl	2-(N-(cyclopropyl-
er grant					methyl)aminomethyl)phenyl
	13.1	830	$_{\odot}\mathbf{F}_{\odot}$	2,6-diF-phenyl	2-(N-(cyclobutyl)-
Mark Johnson	20			ં આવે કે કે કે જેવા ક જેવા કોઈ જો કે જેવા કે	aminomethyl)phenyl
the same	Arrive	831	F	2,6-diF-phenyl	2-(N-(cyclopentyl)-
T. Albanie		Orbania		A CONTRACTOR OF THE SECOND	aminomethyl)phenyl
9.1		832	F	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			•		methyl)phenyl
•	25	83 3	CO2CH3	phenyl	2-(aminosulfonyl)phenyl
ALCO L		834	CO2CH3	phenyl	2-(methylaminosulfonyl)phenyl
Barry Miller		83 5	CO2CH3	phényl	1-pyrrolidinocarbonyl
-		836	CO2CH3	phenyl	2-(methylsulfonyl)phenyl
		837	CO2CH3	phenyl ·	2-(N,N-
	30				dimethylaminomethyl)phenyl
		838	CO2CH3	phe nyi	2-(N-pyrrolidinylmethyl)phenyl
•		839	CO2CH3	phenyl	l-methyl-2-imidazolyl
		840	CO2CH3	phenyl	2-methyl-1-imidazolyl
	_0	841	CO2CH3	phenyl	2-(dimethylaminomethyl)-1-
	35	0.40			imidazolyl
		842	CO2CH3	ph eny l	2-(N-(cyclopropyl-
					methyl)aminomethyl)phenyl
		843	CO2CH3	phenyl	2-(N-(cyclobutyl)-
					aminomethyl)phenyl
	40	844	CO2CH3	phenyl	2-(N-(cyclopentyl)-
				•	aminomethyl)phenyl
		845	CO2CH3	ph enyl	2-(N-(3-hydroxypyrrolidinyl)-
					methyl)phenyl
		846	CO2CH3	2-pyridyl	2-(aminosulfonyl)phenyl
	45	847	CO2CH3	2-pyridyl	2-(methylaminosulfonyl)phenyl
		848	CO2CH3	2-pyridyl	1-pyrrolidinocarbonyl
	•	849	CO2CH3	2-pyridyl	2-(methylsulfonyl)phenyl
				•	· ····································

	850	CO2CH3	2-pyridyl	2-(N,N-
				dimethylaminomethyl)phenyl
	851	CO2CH3	2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
	852	CO2CH3		l-methyl-2-imidazolyl
5	853	CO2CH3		2-methyl-1-imidazolyl
-	854	CO2CH3		2-(dimethylaminomethyl)-1-
	054	COZCIII	z-pyridyi	imidazolyl
	855	CO2CH3	2-pyridyl	2-(N-(cyclopropyl-
•				methyl)aminomethyl)phenyl
10	856	CO2CH3	2-pyridyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	857	CO2CH3	2-pyridyl	2-(N-(cyclopentyl)-
			- ,	aminomethyl)phenyl
	858	CO2CH3	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
15			F33-	methyl)phenyl
	859	СО2СН3	3-pyridyl	2-(aminosulfonyl)phenyl
	860	CO2CH3	3-pyridyl	2-(methylaminosulfonyl)phenyl
	861		3-pyridyl	
	862	CO2CH3	3-pyridyl	1-pyrrolidinocarbonyl
20	863	CO2CH3	3-pyridyl	2-(methylsulfonyl)phenyl
				2-(N,N-
	961			dimethylaminomethyl)phenyl
Replication of	864			2-(N-pyrrolidinylmethyl)phenyl
	865	CO2CH3	3-pyridyl	1-methyl-2-imidazolyl
	866	CO2CH3	3-pyridyl	2-methyl-1-imidazolyl
25	867	CO2CH3	3-pyridyl	2-(dimethylaminomethyl)-1-
			er e francisco	imidazolyl
	868	CO2CH3	3-pyridyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	869	CO2CH3	3-pyridyl	2-(N-(cyclobutyl)-
30				aminomethyl)phenyl
	870	CO2CH3	3-pyridyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
	87 1	CO2CH3	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
35	872	CO2CH3	2-pyrimidyl	2-(aminosulfonyl)phenyl
	87 3	CO2CH3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	874	CO2CH3	2-pyrimidyl	1-pyrrolidinocarbonyl
	87 5	CO2CH3	2-pyrimidyl	2-(methylsulfonyl)phenyl
	876	CO2CH3	2-pyrimidyl	2-(N,N-
40	•		1,,	dimethylaminomethyl)phenyl
	877	CO2CH3	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	878	CO2CH3	2-pyrimidyl	1-methyl-2-imidazolyl
	879	CO2CH3	2-pyrimidyl 2-pyrimidyl	· · · · · · · · · · · · · · · · · · ·
•	880	CO2CH3	2-pyrimidyl 2-pyrimidyl	2-methyl-1-imidazolyl
45		COLCIII	~-pyrmmuyi	2-(dimethylaminomethyl)-1-
47	881	CO2CH3	2	imidazolyl
	001	COZCID	2-pyrimidyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl

	882	CO2CH3	2-pyrimidyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	883	CO2CH3	2-pyrimidyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
5	884	CO2CH3	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
			ry	methyl)phenyl
	885	CO2CH3	5-pyrimidyl	2-(aminosulfonyl)phenyl
	886	CO2CH3	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	887	CO2CH3	5-pyrimidyl	
10	888	CO2CH3	5-pyrimidyl	l-pyrrolidinocarbonyl
	889	CO2CH3	5-pyrimidyl	2-(methylsulfonyl)phenyl
	30)	COZCIE	3-pyrmidyi	2-(N,N-
	890	CO2CH3	5-pyrimidyl	dimethylaminomethyl)phenyl
	891	CO2CH3	5-pyrimidyl 5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
15	892	CO2CH3	5-pyrimidyl	1-methyl-2-imidazolyl
-	893	CO2CH3		2-methyl-1-imidazolyl
	075	CO2CH3	5-pyrimidyl	2-(dimethylaminomethyl)-1-
· · · · · · · · · · · · · · · · · · ·	894	CO2CH3	<i>5</i>	imidazolyl
in a wayley	074	COZCES	5-pyrimidyl	2-(N-(cyclopropyl-
20	895	COSCIIS		methyl)aminomethyl)phenyl
		CO2CH3		2-(N-(cyclobutyl)-
41728 40 000	896	COSCUS	· White is the second	aminomethyl)phenyl
The property of	990	CO2CH3	5-pyrimidyl	2-(N-(cyclopentyl)-
100			1.	aminomethyl)phenyl
	897	CO2CH3	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
25	898	COOCTE		methyl)phenyl
The state of the s	899	CO2CH3	2-F-phenyl	2-(aminosulfonyl)phenyl
	900	CO2CH3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
		CO2CH3	2-F-phenyl	1-pyrrolidinocarbonyl
20	901	CO2CH3	2-F-phenyl	2-(methylsulfonyl)phenyl
30	902	CO2CH3	2-F-phenyl	2-(N,N-
	002	0000777		dimethylaminomethyl)phenyl
	903	CO2CH3	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	904	CO2CH3	2-F-phenyl	1-methyl-2-imidazolyl
	905	CO2CH3	2-F-phenyl	2-methyl-1-imidazolyl
35	906	CO2CH3	2-F-phenyl	2-(dimethylaminomethyl)-1-
	000			imidazolyl
•	907	CO2CH3	2-F-phenyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	908	CO2CH3	2-F-phenyl	2-(N-(cyclobutyl)-
40				aminomethyl)phenyl
•	909	CO2CH3	2-F-phenyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
	910	CO2CH3	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			-	methyl)phenyl
45	911	CO2CH3	2-F-phenyl	2-(aminosulfonyl)phenyl
	912	CO2CH3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	913	CO2CH3	2-F-phenyl	1-pyrrolidinocarbonyl
			•	- Fy

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		914	CO2CH3	2-F-phenyl	2-(methylsulfonyl)phenyl
		915	CO2CH3	2-F-phenyl	2-(N,N-
				• •	dimethylaminomethyl)phenyl
		916	CO2CH3	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	5	917	CO2CH3	2-F-phenyl	l-methyl-2-imidazolyl
		918	CO2CH3	2-F-phenyl	2-methyl-1-imidazolyl
		919	CO2CH3	2-F-phenyl	2-(dimethylaminomethyl)-1-
				• •	imidazolyl
		920	CO2CH3	2-F-phenyl	2-(N-(cyclopropyl-
	10			• •	methyl)aminomethyl)phenyl
		921	CO2CH3	2-F-phenyl	2-(N-(cyclobutyl)-
					aminomethyl)phenyl
		922	CO2CH3	2-F-phenyl	2-(N-(cyclopentyl)-
					aminomethyl)phenyl
	15	923	CO2CH3	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
					methyl)phenyl
		924	CO2CH3	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
		925	CO2CH3	2.6-diF-phenyl	2-(methylaminosulfonyl)phenyl
		926	CO2CH3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	20	927	CO2CH3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
in the second	: · · · ·	928	CO2CH3	2,6-diF-phenyl	2-(N,N-
भगन्य करने १४	graph of the	: (i		Deposite and London	dimethylaminomethyl)phenyl
		929	CO2CH3	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
•		930	CO2CH3	2,6-diF-phenyl	1-methyl-2-imidazolyl
	25	931	CO2CH3	2,6-diF-phenyl	2-methyl-1-imidazolyl
1000		932	CO2CH3	2,6-diF-phenyl	2-(dimethylaminomethyl)-1-
	30 × 10 ×				imidazolyl
		933	CO2CH3 ···	2,6-diF-phenyl	2-(N-(cyclopropyl-
	٠				methyl)aminomethyl)phenyl
	30	934	CO2CH3	2,6-diF-phenyl	2-(N-(cyclobutyl)-
		00.5			aminomethyl)phenyl
		935	CO2CH3	2,6-diF-phenyl	2-(N-(cyclopentyl)-
		006			aminomethyl)phenyl
		936	CO2CH3	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	35	022	CTTOCCTTO		methyl)phenyl
		937	CH2OCH3	phenyl	2-(aminosulfonyl)phenyl
		938 939	CH2OCH3	phenyl	2-(methylaminosulfonyl)phenyl
		939	CH2OCH3	phenyl	1-pyrrolidinocarbonyl
	4.0	941	CH2OCH3	phenyl	2-(methylsulfonyl)phenyl
	40	741	CH2OCH3	phenyl	2-(N,N-
		042	CHACCHA		dimethylaminomethyl)phenyl
		942 943	CH2OCH3 CH2OCH3	phenyl	2-(N-pyrrolidinylmethyl)phenyl
		943 944		phenyl	1-methyl-2-imidazolyl
	45	944	CH2OCH3	phenyl	2-methyl-1-imidazolyl
	45	743	CH2OCH3	phenyl	2-(dimethylaminomethyl)-1-
		946	CHOCCHO	-boI	imidazolyl
		770	CH2OCH3	phenyl	2-(N-(cyclopropy)-

The Character of Marie Contracts of Marie Contracts

			methyl)aminomethyl)phenyl
	947	CH2OCH3 phenyl	2-(N-(cyclobutyl)-
			aminomethyl)phenyl
	948	CH2OCH3 phenyl	2-(N-(cyclopentyl)-
5	5	•	aminomethyl)phenyl
	949	CH2OCH3 phenyl	2-(N-(3-hydroxypyrrolidinyl)-
		passy.	
	950	CH2OCH3 2-pyridyl	methyl)phenyl
	951	CH2OCH3 2-pyridyl	2-(aminosulfonyl)phenyl
10		CH2OCH3 2-pyridyl	2-(methylaminosulfonyl)phenyl
	953	100-	1-pyrrolidinocarbonyl
	954	1,5 5	2-(methylsulfonyl)phenyl
	7.54	CH2OCH3 2-pyridyl	2-(N,N-
	055	CURRENT	dimethylaminomethyl)phenyl
	955	CH2OCH3 2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
15	956	CH2OCH3 2-pyridyl	1-methyl-2-imidazolyl
	957	CH2OCH3 2-pyridyl	2-methyl-1-imidazolyl
	958	CH2OCH3 2-pyridyl	2-(dimethylaminomethyl)-1-
	a.	and the second of the second o	imidazolyl
	959	CH2OCH3 2-pyridyl	2-(N-(cyclopropyl-
20		The second of th	methyl)aminomethyl)phenyl
	960	CH2OCH3 2-pyridyl	2-(N-(cyclobutyl)-
		er Berling in Malaksalapakan paragasi in i	aminomethyl)phenyl
	9 61	CH2OCH3 2-pyridyl	2-(N-(cyclopentyl)-
			aminomethyl)phenyl
25	962	CH2OCH3 2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
			methyl)phenyl
	963	CH2OCH3 3-pyridyl	2-(aminosulfonyl)phenyl
	964	CH2OCH3 3-pyridyl	2 (moth-dominant)
	965	CH2OCH3 3-pyridyl	2-(methylaminosulfonyl)phenyl
30	966	CH2OCH3 3-pyridyl	1-pyrrolidinocarbonyl
	967	CH2OCH3 3-pyridyl	2-(methylsulfonyl)phenyl
		oracers s-pyridyr	2-(N,N-
	968	CH2OCH3 3-pyridyl	dimethylaminomethyl)phenyl
	969		2-(N-pyrrolidinylmethyl)phenyl
35	970		l-methyl-2-imidazolyl
33	971	13	2-methyl-1-imidazolyl
	3/1	CH2OCH3 3-pyridyl	2-(dimethylaminomethyl)-1-
	972	CURCOUR	imidazolyl
	912	CH2OCH3 3-pyridyl	2-(N-(cyclopropyl-
	070	CVVA C CONT	methyl)aminomethyl)phenyl
40	973	CH2OCH3 3-pyridyl	2-(N-(cyclobutyl)-
		;	aminomethyl)phenyl
	974	CH2OCH3 3-pyridyl	2-(N-(cyclopentyl)-
			aminomethyl)phenyl
	975	CH2OCH3 3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
45			methyl)phenyl
	976	CH2OCH3 2-pyrimidyl	2-(aminosulfonyl)phenyl
	977	CH2OCH3 2-pyrimidyl	2-(methylaminosulfonyl)phenyl
		<u> </u>	- (metry animosunony) pnenyl

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	070	CHOCH	2	1 12 2 1 1	
	978		2-pyrimidyl	1-pyrrolidinocarbonyl	
	979		2-pyrimidyl	2-(methylsulfonyl)phenyl	
	980	CH2OCH3	2-pyrimidyl	2-(N,N-	
				dimethylaminomethyl)phenyl	
5	981		2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl	
	982	CH2OCH3	2-pyrimidyl	l-methyl-2-imidazolyl	
	983	CH2OCH3	2-pyrimidyl	2-methyl-1-imidazolyl	
	984	CH2OCH3	2-pyrimidyl	2-(dimethylaminomethyl)-1-	
				imidazolyl	
10	985	CH2OCH3	2-pyrimidyl	2-(N-(cyclopropyl-	
				methyl)aminomethyl)phenyl	
	986	CH2OCH3	2-pyrimidyl	2-(N-(cyclobutyl)-	
			12	aminomethyl)phenyl	
	987	CH2OCH3	2-pyrimidyl	2-(N-(cyclopentyl)-	
15			- _F ,,-	aminomethyl)phenyl	
	988	CH2OCH3	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-	
			2 pyrmidyr	methyl)phenyl	
். ஆழ்கள்ள	989	сизосиз	5-pyrimidyl	2-(aminosulfonyl)phenyl	
			5-pyrimidyl	2-(animosuifonyl)phenyl	
463 ef at ee 20 e	001	CHOCHS	5-pyrimidyl		
	:			1-pyrrolidinocarbonyl	
Wednesday.	002	CH2OCH3	5-pyrimidyl		
	773	CHZUCHS.	5-pyrimidyl		and the second s
ne to a		CITACOTTA		dimethylaminomethyl)phenyl	•
	994		5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl	
25	995		5-pyrimidyl	1-methyl-2-imidazolyl	
	996		5-pyrimidyl	2-methyl-1-imidazolyl	
mari de e	997	CH2OCH3	5-pyrimidyl	2-(dimethylaminomethyl)-1-	
	000	CXX0.0.CXX0		imidazolyl	
	998	CH2OCH3	5-pyrimidyl	2-(N-(cyclopropyl-	
30	200	G110 0 G110		methyl)aminomethyl)phenyl	
	999	CH2OCH3	5-pyrimidyl	2-(N-(cyclobutyl)-	
				aminomethyl)phenyl	
	1000	CH2OCH3	5-pyrimidyl	2-(N-(cyclopentyl)-	
				aminomethyl)phenyl	•
35	1001	CH2OCH3	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-	
				methyl)phenyl	
	1002	CH2OCH3		2-(aminosulfonyl)phenyl	
	1003		2-F-phenyl	2-(methylaminosulfonyl)phenyl	
-	1004	CH2OCH3	2-F-phenyl	1-pyrrolidinocarbonyl	
40	1005	CH2OCH3	2-F-phenyl	2-(methylsulfonyl)phenyl	
	1006	CH2OCH3	2-F-phenyl	2-(N,N-	
				dimethylaminomethyl)phenyl	
	1007	CH2OCH3	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl	
	1008		2-F-phenyl	1-methyl-2-imidazolyl	
45	1009		2-F-phenyl	2-methyl-1-imidazolyl	
	1010		2-F-phenyl	2-(dimethylaminomethyl)-1-	
•			passiji	imidazolyl	
			•	mindazoryi	

	1011	CH2OCH	3 2-F-phenyl	2-(N-(cyclopropyl-
	1012		3 2-F-phenyl	methyl)aminomethyl)phenyl
	1012	CHZOCH	3 2-r-phenyl	2-(N-(cyclobutyl)- aminomethyl)phenyl
5	1013	CH2OCH	3 2-F-phenyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
	1014	CH2OCH	3 2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	1015	СН2ОСН	2 2 E mbanut	methyl)phenyl
10	1016			2-(aminosulfonyl)phenyl
20	1017			2-(methylaminosulfonyl)phenyl
	1018	CH2OCH	3 2-F-phenyl	1-pyrrolidinocarbonyl
	1019	CH2OCH		2-(methylsulfonyl)phenyl
	1017	CIZOCII.	2-r-phenyr	2-(N,N-
15	1020	CH2OCH	3 2-F-phenyl	dimethylaminomethyl)phenyl
	1021	CH2OCH		2-(N-pyrrolidinylmethyl)phenyl
• *	1022	CH2OCH3		1-methyl-2-imidazolyl
	1023	CH2OCH3		2-methyl-1-imidazolyl
ា មានផ្ទៃការ។				2-(dimethylaminomethyl)-1-
20	1024	СН2ОСН3	2-F-phenyl	imidazolyl
·····································		10.5444915		
A CALLET HOLDER	1025	СН2ОСН3	2 5 1	methyl)aminomethyl)phenyl
at a comment		4 3475	- z-i -piichyi	2-(N-(cyclobutyl)-
	1026	CH2OCH3	2-F-phenyl	aminomethyl)phenyl
25	1020	011100113	2-i -phenyi	2-(N-(cyclopentyl)-
	1027	СН2ОСН3	2-F-phenyl	aminomethyl)phenyl
	,ual Ti	011200119	2-1-phonyi	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl
The state of the s	1028	CH2OCH3	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	1029	CH2OCH3		
30	1030	CH2OCH3		(
	1031	CH2OCH3	2.6-diF-phenyl	
	1032	CH2OCH3	2,6-diF-phenyl	
			-,o an phony	dimethylaminomethyl)phenyl
	1033	CH2OCH3	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
35	1034	CH2OCH3		1-methyl-2-imidazolyl
	1035	CH2OCH3	2,6-diF-phenyl	2-methyl-1-imidazolyl
	1036	CH2OCH3	2,6-diF-phenyl	2-(dimethylaminomethyl)-1-
			_, 	imidazolyl
	1037	CH2OCH3	2,6-diF-phenyl	2-(N-(cyclopropyl-
40			, I promy	methyl)aminomethyl)phenyl
	1038	CH2OCH3	2.6-diF-phenyl	2-(N-(cyclobutyl)-
			-v piloliji	aminomethyl)phenyl
	1039	CH2OCH3	2,6-diF-phenyl	2-(N-(cyclopentyl)-
•			, py1	aminomethyl)phenyl
45	1040	CH2OCH3	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			, parent	methyl)phenyl
	1041	CONH2	phenyl	2-(aminosulfonyl)phenyl
				- (iosuifoliyi)pileliyi

1043		phenyl	2-(methylaminosulfonyl)phenyl
1043		phenyl	1-pyrrolidinocarbonyl
1044	4 CONH2	phenyl	2-(methylsulfonyl)phenyl
1045		phenyl	2-(N,N-
5	,	F, -	dimethylaminomethyl)phenyl
	6 CONH2	nhamel	
1046		phenyl	2-(N-pyrrolidinylmethyl)phenyl
1047		phenyl	1-methyl-2-imidazolyl
1048		ph en yl	2-methyl-1-imidazolyl
1049	CONH2	phenyl	2-(dimethylaminomethyl)-1-
10		•	imidazolyl
1050	CONH2	phenyl	2-(N-(cyclopropyl-
	((() () ()	phenyi	, , , , , , , , , , , , , , , , , , ,
1051	CONTIN		methyl)aminomethyl)phenyl
1051	CONH2	phenyl	2-(N-(cyclobutyl)-
			aminomethyl)phenyl
15 1052	CONH2	phenyl	2-(N-(cyclopentyl)-
			aminomethyl)phenyl
1053	CONH2	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
1054	CONIUS."		
1054			2 (diminosation) i) pheny i
20 1055			2-(metrylaminosunonyl)phenyl
1056 mg			1-pyrrolidinocarbonyl
1057	CONH2	2-pyridyl	2-(methylsulfonyl)phenyl
1058			2-(N,N-
•		<u> </u>	dimethylaminomethyl)phenyl
25 105 9	CONH2	2	
		2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
1060			1-methyl-2-imidazolyl
1061			2-methyl-1-imidazolyl
1062	CONH2	2-pýridyl	2-(dimethylaminomethyl)-1-
•			imidazolyl
30 106 3	CONH2	2-pyridyl	2-(N-(cyclopropyl-
		***	methyl)aminomethyl)phenyl
1064	CONH2	2-pyridyl	2-(N-(cyclobutyl)-
	CO1412	2-pyridyr	
1065	CONTIN	0	aminomethyl)phenyl
1065	CONH2	2-pyridyl	2-(N-(cyclopentyl)-
35			aminomethyl)phenyl
1066	CONH2	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
			methyl)phenyl
1067	CONH2	3-pyridyl	2-(aminosulfonyl)phenyl
1068	CONH2	3-pyridyl	2-(methylaminosulfonyl)phenyl
40 1069	CONH2		• • • • • • • • • • • • • • • • • • • •
		3-pyridyl	1-pyrrolidinocarbonyl
1070	CONH2	3-pyridyl	2-(methylsulfonyl)phenyl
1071	CONH2	3-pyridyl	2-(N,N-
			dimethylaminomethyl)phenyl
1072	CONH2	3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
45 1073	CONH2	3-pyridyl	1-methyl-2-imidazolyl
1074	CONH2	3-pyridyl	· ·
1075			2-methyl-1-imidazolyl
1075	CONH2	3-pyridyl	2-(dimethylaminomethyl)-1-

				imidazolyl
	1076	CONH2	3-pyridyl	2-(N-(cyclopropyl-
		•		methyl)aminomethyl)phenyl
	1077	CONH2	3-pyridyl	2-(N-(cyclobutyl)-
5				aminomethyl)phenyl
	1078	CONH2	3-pyridyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
	1079	CONH2	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
10	1080	CONH2	2-pyrimidyl	2-(aminosulfonyl)phenyl
	1081	CONH2	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	1082	CONH2	2-pyrimidyl	1-pyrrolidinocarbonyl
	1083	CONH2	2-pyrimidyl	2-(methylsulfonyl)phenyl
	1084	CONH2	2-pyrimidyl	2-(N,N-
15				dimethylaminomethyl)phenyl
	1085	CONH2	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
and the second	1086	CONH2	2-pyrimidyl	1-methyl-2-imidazolyl
	1087	CONH2	2-pyrimidyl	2-methyl-1-imidazolyl
	1088	CONH2	2-pyrimidyl	2-(dimethylaminomethyl)-1-
20		•		imidazolyl
	1089	CONH2	2-pyrimidyl	2-(N-(cyclopropyl-
wattsgay ar issue, is		. <u> </u>	Selve a California.	methyl)aminomethyl)phenyl
The state of	1090	CONH2	2-pyrimidyl	2-(N-(cyclobutyl)-
	1001	00\ mr0		aminomethyl)phenyl
25	1091	CONH2	2-pyrimidyl	2-(N-(cyclopentyl)-
374, 434 by 1996.	1092	CONH2	2	aminomethyl)phenyl
	: 10,52	CONFIZ	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
•	1093	CONH2	5-pyrimidyl	methyl)phenyl
30	1094	CONH2	5-pyrimidyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
	1095	CONH2	5-pyrimidyl	1-pyrrolidinocarbonyl
	1096	CONH2	5-pyrimidyl	2-(methylsulfonyl)phenyl
	1097	CONH2	5-pyrimidyl	2-(M,N-
			o pjimmeji	dimethylaminomethyl)phenyl
35	1098	CONH2	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	1 09 9	CONH2	5-pyrimidyl	1-methyl-2-imidazolyl
	1100	CONH2	5-pyrimidyl	2-methyl-1-imidazolyl
	1101	CONH2	5-pyrimidyl	2-(dimethylaminomethyl)-1-
			1,	imidazolyl
40	1102	CONH2	5-pyrimidyl	2-(N-(cyclopropyl-
\$ ***				methyl)aminomethyl)phenyl
	1103	CONH2	5-pyrimidyl	2-(N-(cyclobutyl)-
			,	aminomethyl)phenyl
	1104	CONH2	5-pyrimidyl	2-(N-(cyclopentyl)-
45				aminomethyl)phenyl
	1105	CONH2	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
			•	methyl)phenyl
				4 /1 ···· 4

	1106	CONH2	2-F-phenyl	2-(aminosulfonyl)phenyl
	1107	CONH2	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	1108	CONH2	2-F-phenyl	1-pyrrolidinocarbonyl
	1109		2-F-phenyl	2-(methylsulfonyl)phenyl
5	1110	CONH2	2-F-phenyl	2-(N,N-
3	1110	CONTE	2-1 -phenyi	
	1111	CONTITO	2 F	dimethylaminomethyl)phenyl
	1111	CONH2	2-F-phenyi	2-(N-pyrrolidinylmethyl)phenyl
	1112	CONH2	2-F-phenyl	1-methyl-2-imidazolyl
	1113	CONH2	2-F-phenyl	2-methyl-1-imidazolyl
10	1114	CONH2	2-F-phenyl	2-(dimethylaminomethyl)-1-
		GO) 7710		imidazolyl
	1115	CONH2	2-F-phenyl	2-(N-(cyclopropyl-
			_	methyl)aminomethyl)phenyl
	1116	CONH2	2-F-phenyl	2-(N-(cyclobutyl)-
15				aminomethyl)phenyl
	1117	CONH2	2-F-phenyl	2-(N-(cyclopentyl)-
:.				aminomethyl)phenyl
	1118	CONH2	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			ale es l'as l'	methyl)phenyl
Julio 20	1119		2-F-phenyl	2-(aminosulfonyl)phenyl
Ann Haire	1120	CONH2		2-(methylaminosulfonyl)phenyl
The state of the s	1122	CONH2	2-F-phenyl	2-(methylsulfonyl)phenyl
•	1123	CONH2	2-F-phenyl	2-(N,N-
25		00.112	2 1 -phony	dimethylaminomethyl)phenyl
-5	1124	CONH2	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	1125	CONH2	2-F-phenyl	
	1126	CONH2	2-F-phenyl	l-methyl-2-imidazolyl
	1127			2-methyl-1-imidazolyl
	1127	CONH2	2-F-phenyl	2-(dimethylaminomethyl)-1-
~ 30		G01770		imidazolyl
	1128	CONH2	2-F-phenyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	1129	CONH2	2-F-phenyl	2-(N-(cyclobutyl)-
			•	aminomethyl)phenyl
35	1130	CONH2	2-F-phenyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
	1131	CONH2	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
	1132	CONH2	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
40	1133	CONH2	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	1134	CONH2	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	1135	CONH2	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	1136	CONH2		
	1130	CONFIZ	2,6-diF-phenyl	2-(N.N-
4.5	1127	CONTRA	` 0 < 17F 1	dimethylaminomethyl)phenyl
45	1137	CONH2	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	1138	CONH2	2,6-diF-phenyl	1-methyl-2-imidazolyl
	1139	CONH2	2,6-diF-phenyl	2-methyl-1-imidazolyl

	1140	CONH2	2,6-diF-phenyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	1141	CONH2	2,6-diF-phenyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
5	1142	CONH2	2,6-diF-phenyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	1143	CONH2	2,6-diF-phenyl	2-(N-(cyclopentyl)-
		G0\ 770		aminomethyl)phenyl
	1144	CONH2	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
10	1145	CD I		methyl)phenyl
	1145 1146		phenyl	2-(aminosulfonyl)phenyl
	1140		phenyl	2-(methylaminosulfonyl)phenyl
	1147	CN	phenyi	1-pyrrolidinocarbonyl
15	1149		phenyl	2-(methylsulfonyl)phenyl
13	1147	CIA	phenyl	2-(N,N-
	1150	CN	mbomul	dimethylaminomethyl)phenyl
•	1151	CN	phenyl	2-(N-pyrrolidinylmethyl)phenyl
	1152	CN	phenyl	1-methyl-2-imidazolyl
30	1153	CN	phenyl	2-methyl-1-imidazolyl
20		CN	phenyl	
化氯化铁铁矿 30	1154	CN		imidazolyl
of the antiplicati	11134	CIN	phenyl	2-(N-(cyclopropyl-
	1155	CN	_11	methyl)aminomethyl)phenyl
25	1133	CN	phenyl	2-(N-(cyclobutyl)-
25	1156	CN	•	aminomethyl)phenyl
William St.	1150	CN	phenyl	2-(N-(cyclopentyl)-
Carlotte the State Control	1157	CN	-hl	aminomethyl)phenyl
*, 1	1157	CN	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
30	1158	CN	المستطاعة	methyl)phenyl
	1159	CN	2-pyridyl 2-pyridyl	2-(aminosulfonyl)phenyl
	1160	CN		2-(methylaminosulfonyl)phenyl
	1161	CN	2-pyridyl	1-pyrrolidinocarbonyl
	1162	CN	2-pyridyl 2-pyridyl	2-(methylsulfonyl)phenyl
35	1102	CIV	z-pyriayi	2-(N,N-
	1163	CN-	2-pyridyl	dimethylaminomethyl)phenyl
	1164	CN	2-pyridyl 2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
	1165	CN	2-pyridyl 2-pyridyl	1-methyl-2-imidazolyl
	1166	CN	2-pyridyl 2-pyridyl	2-methyl-1-imidazolyl
40	1100	CIV	z-pyridyi	2-(dimethylaminomethyl)-1-
10	1167	CN	2 municipal	imidazolyl
	1107	CIV	2-pyridyl	2-(N-(cyclopropyl-
	1168	CN	2	methyl)aminomethyl)phenyl
	1100	C14	2-pyridyl	2-(N-(cyclobutyl)-
45	1169	CN	2	aminomethyl)phenyl
		C14	2-pyridyl	2-(N-(cyclopentyl)-
	1170	CN	2 marrialest	aminomethyl)phenyl
		014	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-

				methyl)phenyl
	1171	CN	3-pyridyl	2-(aminosulfonyl)phenyl
	1172		3-pyridyl	2-(methylaminosulfonyl)phenyl
	1173		3-pyridyl	1-pyrrolidinocarbonyl
	5 1174		-	
			3-pyridyl	2-(methylsulfonyl)phenyl
	1175	CN	3-py ri dyl	2-(N,N-
				dimethylaminomethyl)phenyl
	1176		3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
	1177		3-pyridyl	1-methyl-2-imidazolyl
1	.0 1178		3-pyridyl	2-methyl-1-imidazolyl
	1179	CN	3-pyridyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	1180	CN	3-pÿridyl	2-(N-(cyclopropyl-
		•	•••	methyl)aminomethyl)phenyl
1	5 1181	CN	3-pyridyl	2-(N-(cyclobutyl)-
_			o py	aminomethyl)phenyl
	1182	CN	3-pyridyl	2-(N-(cyclopentyl)-
	1102		-	- aminomethyl)phenyl
٠.	1183	CN		2-(N-(3-hydroxypyrrolidinyl)-
•	0			
				" " " " " " " " " " " " " " " " " " "
	1184	CN	2-pyrimidyi	
the prince		CN	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	1186	CN	2-pyrimidyl	· py.romanio-ar bonyr
	1187	CN	2-pyrimidyl	2-(methylsulfonyl)phenyl
2	5 1188	CN	2-pyrimidyl	2-(N,N-
\$ 24.				dimethylaminomethyl)phenyl
(۱۱) معرف ا ارومه اس ا	1189	CN:	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
•	1190	CN	2-pyrimidyl	1-methyl-2-imidazolyl
	1191	CN	2-pyrimidyl	2-methyl-1-imidazolyl
3(1192	CN	2-pyrimidyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	1193	CN	2-pyrimidyl	2-(N-(cyclopropyl-
			- FJ	methyl)aminomethyl)phenyl
	1194	CN	2-pyrimidyl	2-(N-(cyclobutyl)-
. 35		011	2-pyrimidyr	aminomethyl)phenyl
-	1195	CN	2	
	1195	CIT	2-pyrimidyl	2-(N-(cyclopentyl)-
	1106	CNI	2	aminomethyl)phenyl
	1196	CN	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
40		CN	5-pyrimidyl	2-(aminosulfonyl)phenyl
	1198	CN	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	11 9 9	CN	5-pyrimidyl	1-pyrrolidinocarbonyl
	1200	CN	5-pyrimidyl	2-(methylsulfonyl)phenyl
	1200		• •	• • • • • • • • • • • • • • • • • • • •
	1201	CN	5-pyrimidyl	2-(N_N-
45	1201	CN	5-pyrimidyl	2-(N,N- dimethylaminomethyl)phenyl
45	1 20 1			dimethylaminomethyl)phenyl
45	1201	CN CN	5-pyrimidyl 5-pyrimidyl 5-pyrimidyl	·

	1204	CN	5-pyrimidyl	2-methyl-1-imidazolyl
	1205	CN	5-pyrimidyl	2-(dimethylaminomethyl)-1-
•			• •	imidazolyl
	1206	CN	5-pyrimidyl	2-(N-(cyclopropyl-
5			- pyramey.	methyl)aminomethyl)phenyl
	1207	CN	5-pyrimidyl	
	1207	CIV	3-pyrimidyr	2-(N-(cyclobutyl)-
	1208	CN	<i>5</i>	aminomethyl)phenyl
	1200	CIN	5-pyrimidyl	2-(N-(cyclopentyl)-
	1000	co. r		aminomethyl)phenyl
10	1209	CN	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
				methyl)phenyl
	1210	CN	2-F-phenyl	2-(aminosulfonyl)phenyl
	1211	CN	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	1212	CN	2-F-phenyl	1-pyrrolidinocarbonyl
15	1213	CN	2-F-phenyl	2-(methylsulfonyl)phenyl
	1214	CN	2-F-phenyl	2-(N,N-
	·		•	dimethylaminomethyl)phenyl
di Marini Lafe.	1215	CN	2-F-phenyl	
	1216	CN	2-F-phenyl	1-methyl-2-imidazolyl
20	1217	CN		2-methyl-1-imidazolyl
the state of the best of the explana-	1010	CN		2-methyl-1-midazolyt
Alexander of productions of) ITT.	U 11;	Zar -pncnya	
ing special proc	1210	CN	2 F -11	A CONTRACT OF THE PROPERTY OF
en de la martina	1217	CIV	2-F-phenyl	2-(N-(cyclopropyl-
. 25	1220	CN	2 F	methyl)aminomethyl)phenyl
	1220	CN	2-F-phenyl	2-(N-(cyclobutyl)-
	. 1771	CD I		aminomethyl)phenyl
	1221	CN	Z-r-phenyl	2-(N-(cyclopentyl)-
and the second second	1222	~		aminomethyl)phenyl
	1222	CN	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
30				methyl)phenyl
	1223	CN	2-F-phenyl	2-(aminosulfonyl)phenyl
	1224	CN	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	1225	CN	2-F-phenyl	1-pyrrolidinocarbonyl
	1226	CN	2-F-phenyl	2-(methylsulfonyl)phenyl
35	1227	CN	2-F-phenyl	2-(N,N-
				dimethylaminomethyl)phenyl
	1228	CN	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	1229	CN	2-F-phenyl	l-methyl-2-imidazolyl
	1230	CN	2-F-phenyl	2-methyl-1-imidazolyl
40	1231	CN	2-F-phenyl	2-(dimethylaminomethyl)-1-
			21 phenyi	imidazolyl
	1232	CN	2-E-phonul	
		C14	2-F-phenyl	2-(N-(cyclopropyl-
	1233	CNI	25-1-1	methyl)aminomethyl)phenyl
45	1233	CN	2-F-phenyl	2-(N-(cyclobutyl)-
45	1224			aminomethyl)phenyl
	1234	CN	2-F-phenyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
			•	

	•				
		1235	CN	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl
		1236	CN	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
		1237	CN	2.6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	5	1238	CN	2,6-diF-phenyl	1-pyrrolidinocarbonyl
		1239		2,6-diF-phenyl	2-(methylsulfonyl)phenyl
		1240		2,6-diF-phenyl	2-(N,N-
				-,o piletiji	dimethylaminomethyl)phenyl
		1241	CN	2,6-diF-phenyl	
	10	1242		2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	10	1243	CN	2,6-diF-phenyl	1-methyl-2-imidazolyl
		1243	CN		2-methyl-1-imidazolyl
		1244	CN	2,6-diF-phenyl	2-(dimethylaminomethyl)-1- imidazolyl
		1245	CN	2,6-diF-phenyl	2-(N-(cyclopropyl-
	15				methyl)aminomethyl)phenyl
		1246	CN	2,6-diF-phenyl	2-(N-(cyclobutyl)-
					aminomethyl)phenyl
		1247	CN	2,6-diF-phenyl	2-(N-(cyclopentyl)-
					aminomethyl)phenyl
	.20	1248	CN	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
					methyl)phenyl
nice of the		1249	CH2NH2	phenyl	2-(aminosulfonyl)phenyl
AND MEDICAL CO.	and the second of	1250	CH2NH2	phenyl	2-(methylaminosulfonyl)phenyl
•		1251	CH2NH2	phenyl	1-pyrrolidinocarbonyl
	25	1252	CH2NH2	phenyl	
•		1253	CH2NH2	phenyl	2-(methylsulfonyl)phenyl
		1233	CHERTIE	phenyi	2-(N,N-
		1254	CH2NH2	phenyl	dimethylaminomethyl)phenyl
	·	1255	CH2NH2		2-(N-pyrrolidinylmethyl)phenyl
•	30	1256	CH2NH2	· · phenyl	1-methyl-2-imidazolyl
	30	1257		phenyl	2-methyl-1-imidazolyl
		1237	CH2NH2	phenyl	2-(dimethylaminomethyl)-1-
1		1260	CI ION WYO		imidazolyl
		1258	CH2NH2	phenyi	2-(N-(cyclopropyl-
					methyl)aminomethyl)phenyl
	35	1259	CH2NH2	phenyl	2-(N-(cyclobutyl)-
					aminomethyl)phenyl
		1260	CH2NH2	phenyl	2-(N-(cyclopentyl)-
					aminomethyl)phenyl
		1261	CH2NH2	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	40				methyl)phenyl
		1262	CH2NH2	2-pyridyl	2-(aminosulfonyl)phenyl
		1263	CH2NH2	2-pyridyl	2-(methylaminosulfonyl)phenyl
		1264	CH2NH2	2-pyridyl	1-pyrrolidinocarbonyl
		1265	CH2NH2	2-pyridyl	2-(methylsulfonyl)phenyl
	45	1266	CH2NH2	2-pyridyl	2-(N,N-
					dimethylaminomethyl)phenyl
		1267	CH2NH2	2-pyridyl	
			V& Adj	- pyridyr	2-(N-pyrrolidinylmethyl)phenyl

	1268	CH2NH2	2-pyridyl	1 mathed 2 in item 1.1
	1269			l-methyl-2-imidazolyl
	1270		• • •	2-methyl-1-imidazolyl
	1270	CHZNHZ	2-pyridyl	2-(dimethylaminomethyl)-1- imidazolyl
5	1271	CH2NH2	2-pyridyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	1272	CH2NH2	2-pyridyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	1273	CH2NH2	2-pyridyl	2-(N-(cyclopentyl)-
10			- F JJ-	aminomethyl)phenyl
	1274	CH2NH2	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
			- pyy.	methyl)phenyl
	1275	CH2NH2	3- p yridyl	2-(aminosulfonyl)phenyl
	1276	CH2NH2	3-pyridyl	2-(antinosarionyl)phenyl 2-(methylaminosulfonyl)phenyl
15	1277	CH2NH2	3-pyridyl	1-pyrrolidinocarbonyl
	1278	CH2NH2	3-pyridyl	2-(methylsulfonyl)phenyl
	1279	CH2NH2	3-pyridyl	2-(M,N-
		01121 (112	J-pyridyi	
	1280	CH2NH2	3-pyridyl	dimethylaminomethyl)phenyl
20	1281	CH2NH2		2-(N-pyrrolidinylmethyl)phenyl
	1282			1-methyl-2-imidazolyl
	1283		3-pyridyl 3-pyridyl	2-methyl-1-imidazolyl
	1200	11.01.12.11.12	- Pyridyi	2-(dimethylaminomethyl)-1-
	1284	CH2NH2	2	imidazolyi
25	1207	CHZIVIIZ	3-pyridyl	2-(N-(cyclopropyl-
23	1285	CH2NH2	2	methyl)aminomethyl)phenyl
			3-pyridyl	2-(N-(cyclobutyl)-
		CH2NH2	2	aminomethyl)phenyl
	1200	CHZINIZ	3-pyridyl	2-(N-(cyclopentyl)-
30	1287	CH2NH2	2	aminomethyl)phenyl
50	1207	CHZNAZ	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
-	1288	CH2NH2	2	methyl)phenyl
	1289	CH2NH2	2-pyrimidyl	2-(aminosulfonyl)phenyl
	1290	CH2NH2	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
35	1291	CH2NH2	2-pyrimidyl	1-pyrrolidinocarbonyl
33	1292	CH2NH2	2-pyrimidyl	2-(methylsulfonyl)phenyl
	1232	CHZNHZ	2-pyrimidyl	2-(N,N-
	1293	CH2NH2		dimethylaminomethyl)phenyl
,	1293		2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
4.0	1294	CH2NH2	2-pyrimidyl	1-methyl-2-imidazolyl
40		CH2NH2	2-pyrimidyl	2-methyl-1-imidazolyl
	1296	CH2NH2	2-pyrimidyl	2-(dimethylaminomethyl)-1- imidazolyl
	1297	CH2NH2	2-pyrimidyl	2-(N-(cyclopropyl-
			* • · · · · · · · · · · · · · · · · · ·	methyl)aminomethyl)phenyl
45	1298	CH2NH2	2-pyrimidyl	2-(N-(cyclobutyl)-
			= }-JJ*	aminomethyl)phenyl
	1299	CH2NH2	2-pyrimidyl	2-(N-(cyclopentyl)-
			- pj	= (14-(e)-clopetity);

				aminomethyl)phenyl
	1300	CH2NH2	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
			•	methyl)phenyl
	1301	CH2NH2	1.	2-(aminosulfonyl)phenyl
5	-1302	CH2NH2		2-(methylaminosulfonyl)phenyl
	1303	CH2NH2	17	1-pyrrolidinocarbonyl
	1304	CH2NH2		2-(methylsulfonyl)phenyl
	1305	CH2NH2	5-pyrimidyl	2-(N,N-
•				dimethylaminomethyl)phenyl
10	1306	CH2NH2	1.	2-(N-pyrrolidinylmethyl)phenyl
	1307	CH2NH2	5-pyrimidyl	1-methyl-2-imidazolyl
	1308	CH2NH2	5-pyrimidyl	2-methyl-1-imidazolyl
	1309	CH2NH2	5-pyrimidyl	2-(dimethylaminomethyl)-1-
				imidazolyl
15	1310	CH2NH2	5-pyrimidyl	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl
	1311	CH2NH2	5-pyrimidyl	2-(N-(cyclobutyl)-
		and the second second		aminomethyl)phenyl
	1312	CH2NH2	5-pyrimidyl	2-(N-(cyclopentyl)-
-20			grant tag	aminomethyl)phenyl
5 A	1313	CH2NH2	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
	(- 19 1 4).		\$\$P\$ (特特) 110000000000000000000000000000000000	methyl)phenyl
•	1314	CH2NH2	2-F-phenyl	2-(aminosulfonyl)phenyl
	1315	CH2NH2	2-F-phenyl	2-(methylaminosulfonyl)phenyl
25	1316	CH2NH2	2-F-phenyl	1-pyrrolidinocarbonyl
	1317	CH2NH2	2-F-phenyl	2-(methylsulfonyl)phenyl
-	1318	CH2NH2	2-F-phenyl	2-(N,N-
		-		dimethylaminomethyl)phenyl
	1319	CH2NH2	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
30	1320	CH2NH2	2-F-phenyl	l-methyl-2-imidazolyl
	1321	CH2NH2	2-F-phenyl	2-methyl-1-imidazolyl
	1322	CH2NH2	2-F-phenyl	2-(dimethylaminomethyl)-1-
				imidazolyl
	1323	CH2NH2	2-F-phenyl	2-(N-(cyclopropyl-
35				methyl)aminomethyl)phenyl
	1324	CH2NH2	2-F-phenyl	2-(N-(cyclobutyl)-
				aminomethyl)phenyl
	1325	CH2NH2	2-F-phenyl	2-(N-(cyclopentyl)-
				aminomethyl)phenyl
40	1326	CH2NH2	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
		•	•	methyl)phenyl
	1327	CH2NH2	2-F-phenyl	2-(aminosulfonyl)phenyl
	1328	CH2NH2	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	1329	CH2NH2	2-F-phenyl	1-pyrrolidinocarbonyl
45	1330	CH2NH2	2-F-phenyl	2-(methylsulfonyl)phenyl
	1331	CH2NH2	2-F-phenyl	2-(N,N-
				dimethylaminomethyl)phenyl
				• • • • • • • • • • • • • • • • • • • •

	•	1332	CH2NH2	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
		1333	CH2NH2	2-F-phenyl	1-methyl-2-imidazolyl
		1334	CH2NH2	2-F-phenyl	2-methyl-1-imidazolyl
		1335	CH2NH2	2-F-phenyl	2-(dimethylaminomethyl)-1-
	5			,	imidazolyl
		1336	CH2NH2	2-F-phenyl	2-(N-(cyclopropyl-
				p	methyl)aminomethyl)phenyl
		1337	CH2NH2	2-F-phenyi	2-(N-(cyclobutyl)-
			O112: 1112	- I phony:	aminomethyl)phenyl
	10	1338	CH2NH2	2-F-phenyl	2-(N-(cyclopentyl)-
	10	1550	CILLIVIL	2-1 -pitchy1	
		1339	CH2NH2	2-F-phenyl	aminomethyl)phenyl
		1337	CIIZIVIIZ	z-i-phenyi	2-(N-(3-hydroxypyrrolidinyl)-
		1340	CH2NH2	2.6-diF-phenyl	methyl)phenyl
	15	1341	CH2NH2	2.6-diF-phenyl	2-(aminosulfonyl)phenyl
	1,5	1342	CH2NH2	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
		1342	CH2NH2	2.6-diF-phenyl	1-pyrrolidinocarbonyl
		1344	CH2NH2	2.6-diF-phenyl	2-(methylsulfonyl)phenyl
		1344	CHZNHZ	2.0-dir-pnenyi	2-(N,N-
:	20	1245	CH2NH2	2 6 4:15	dimethylaminomethyl)phenyl
-		1346	CH2NH2	2.6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
			CH2NH2	2,6-diF-phenyl	1-methyl-2-imidazolyl
21.25.74	ំ១៩១/រដ្ឋម	1347 1348	CH2NH2	2,6-diF-phenyl	and the Company of the test of the control of the c
	g to the	1.540	CHZNHZ	2,6-diF-phenyl	2-(dimethylaminomethyl)-1- the three to be a second of the
	25	1349	CH2NH2	2,6-diF-phenyl	imidazolyl
	23	1347	CITATITE	2,0-dir-phenyi	2-(N-(cyclopropyl-
		1350	CH2NH2	2.6-diF-phenyl	methyl)aminomethyl)phenyl
•	1 144.71.		CHENTIE	z.o-dir-phenyi	- Cy Coyoloddy Iy
		1351	CH2NH2	2,6-diF-phenyl	aminomethyl)phenyl
	30	1331	CHZINIZ	2,0-dir-phenyi	2-(N-(cyclopentyl)-
	30	1352	CH2NH2	2.6-diF-phenyl	aminomethyl)phenyl
		1332	CHENTE	2.0-dir-phenyi	2-(N-(3-hydroxypyrrolidinyl)-
		1353	CH2NH-	mhamr?	methyl)phenyl
		1333	SO2CH3	phenyl	2-(aminosulfonyl)phenyl
	35	1354	CH2NH-	nhanvi	2 (marked and a 10 to 10 to 1
	23	1334	SO2CH3	phenyl	2-(methylaminosulfonyl)phenyl
		1355	CH2NH-	nhonvi	11' 4'
		1333	SO2CH3	phenyl	l-pyrrolidinocarbonyl
		1356	CH2NH-	-h1	2/ 1 1 10 5
	40	1550	SO2CH3	phenyl	2-(methylsulfonyl)phenyl
	40	1357		-h1	0.013
		1337	CH2NH-	phenyl	2-(N,N-
		1358	SO2CH3	Ť	dimethylaminomethyl)phenyl
		1220	CH2NH-	phenyl	2-(N-pyπolidinylmethyl)phenyl
	4 E	1250	SO2CH3		
	45	1359	CH2NH-	phenyl	l-methyl-2-imidazolyl
	•	1360	SO2CH3		
		1360	CH2NH-	phenyl	2-methyl-1-imidazolyl

		SO2CH3		
	1361	CH2NH-		2 (4:
	1301		phenyl	2-(dimethylaminomethyl)-1-
	12/2	SO2CH3		imidazolyl
_	1362	CH2NH-	phenyl	2-(N-(cyclopropyl-
_. 5		SO2CH3		methyl)aminomethyl)phenyl
	1363	CH2NH-	phenyl	2-(N-(cyclobutyl)-
		SO2CH3		aminomethyl)phenyl
	1364	CH2NH-	phenyl	2-(N-(cyclopentyl)-
		SO2CH3		aminomethyl)phenyl
10	1365	CH2NH-	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
		SO2CH3		methyl)phenyl
	1366	CH2NH-	2-pyridyl	2-(aminosulfonyl)phenyl
		SO2CH3		
	1367	CH2NH-	2-pyridyl	2-(methylaminosulfonyl)phenyl
15		SO2CH3	•••	, , , , , , , , , , , , , , , , , , ,
	1368	CH2NH-	2-pyridyl	1-pyrrolidinocarbonyl
		SO2CH3	., ,	
	1369	CH2NH-	2-pyridyl	2-(methylsulfonyl)phenyl
		SO2CH3	- F JJ-	and a control of the
20	1370	CH2NH-	2-pyridyl	
		SO2CH3		dimethylaminomethyl)phenyl
		SO2CH3		Control of the second of the s
	1371	CH2NH-	2-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
		SO2CH3	- pyriayi	2-(11-pyrronamymicalyr)phemyr
25	1372	CH2NH-	2-pyridyl	1-methyl-2-imidazolyl
		SO2CH3	z pyridyt	Temodiyi-2-iiiidazoiyi
	1 37 3 :		2-pyridyl	2-methyl-1-imidazolyl
	13.13	SO2CH3	2-pyridyr	2-inculyi-1-iiindazoiyi
	1374	CH2NH-	2-pyridyl	2-(dimethylaminomethyl)-1-
30		SO2CH3	2-pyrrayr	imidazolyl
50	1375	CH2NH-	2-pyridyl	2-(N-(cyclopropyl-
	13,5	SO2CH3	2-pyridyr	
	1376	CH2NH-	2-pyridyl	methyl)aminomethyl)phenyl
	1370	SO2CH3	z-pyriuyi	2-(N-(cyclobutyl)-
35	1377	CH2NH-	2	aminomethyl)phenyl
33	13//	SO2CH3	2-pyridyl	2-(N-(cyclopentyl)-
	1378		2:	aminomethyl)phenyl
	1370	CH2NH-	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
	1379	SO2CH3		methyl)phenyl
4.0	13/9	CH2NH-	3-pyridyl	2-(aminosulfonyl)phenyl
40	1200	SO2CH3		
	1380	CH2NH-	3-pyridyl	2-(methylaminosulfonyl)phenyl
		SO2CH3		
	1381	CH2NH-	3-pyridyl	1-pyrrolidinocarbonyl
		SO2CH3		
45	1382	CH2NH-	3-pyridyl	2-(methylsulfonyl)phenyl
		SO2CH3		
	1383	CH2NH-	3-pyridyl	2-(N,N-

1384 CH2NH- 3-pyridy 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-(pylopylymethyl)phenyl 2-(N-(p			SO2CH	3	dimothylesis at the con-
1385 CH2NH- SO2CH3 SO2		138			dimethylaminomethyl)phenyl
1386 CH2NH- So2CH3 So2			SO2CH		2-(14-pyffolidinylmethyl)phenyl
1386 CH2NH- 3-pyridy 2-methyl-1-imidazoly		138	5 CH2NH-	3-pyridyl	1-mathyl 2 imidanalyl
1387 CH2NH- 3-pyridy 2-(idimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)minomethyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylsulfonyl)phenyl 2-(methylsulfonyl)phenyl 2-(N-(cyclopropyl- methyl)minomethyl)phenyl 2-(N-(n-pyrrolidinylmethyl)phenyl 2-(N-(n-pyrrolidinylmethyl)phenyl 2-(N-(n-pyrrolidinylmethyl)phenyl 2-(N-(cyclopropyl- methyl)minomethyl)phenyl 2	5	5	SO2CH	3	1-mediyi-2-imidazoiyi
1387 CH2NH- SO2CH3 SO2		138			2-mathyl 1 imid-malal
10 1388 CH2NH- 3-pyridy 5O2CH3 1389 CH2NH- 3-pyridy 5O2CH3 1390 CH2NH- 5O2CH3 1391 CH2NH- 5O2CH3 1392 CH2NH- 5O2CH3 1394 CH2NH- 2-pyrimidy 2-(methylaminomethyl)phenyl			SO2CH3	3	2-inculyi-1-imidazolyi
10 1388 CH2NH- SO2CH3		1381	7 CH2NH-	3-pyridyl	2-(dimethylaminamata)
1388 CH2NH- SO2CH3 SO2			SO2CH3		
1389 CH2NH- 3-pyridy 2-(N-(cycloptryl)- aminomethyl)phenyl 2-(N-(a-hydroxypyrrolidinyl)- aminomethyl)phenyl 2-(N-(a-hydroxypyrrolidinyl)- aminomethyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminomethyl)phenyl 2-(methylaminomethyl)phenyl 2-(methylaminomethyl)phenyl 2-(N-(n-pyrrolidinyl)- 2-(n-pyrrolidinyl)	10	1388	CH2NH-	3-pyridyl	
1390 CH2NH- 3-pyridy 2-(N-(cyclobuty)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminomethyl)phenyl 2-(N-N- 3-pyrimidyl 2-(N-N- 3-pyrimidyl 2-(N-N- 3-pyrimidyl 2-(N-pyrrolidinyl)phenyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopentyl)-methyl)phenyl 2-(m-thyl) 2-(m-thyl) 2-(m-thyl)			SO2CH3		methyl)aminomathyllula a 1
1390 CH2NH- 3-pyridy 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminomethyl)phenyl 2-(N-(N-(cyclopentyl)- methyl)phenyl 2-(N-(N-(cyclopentyl)- methyl)phenyl 2-(N-(N-(cyclopentyl)- methyl)phenyl 2-(N-(cyclopentyl)- methyl)aminomethyl)phenyl 2-(N-(cyclopentyl)- methyl)aminomethyl)phenyl 2-(N-(cyclopentyl)- methyl)aminomethyl)phenyl 2-(N-(cyclopentyl)- methyl)aminomethyl)phenyl 2-(N-(cyclopentyl)- methyl)aminomethyl)phenyl 2-(N-(cyclopentyl)- methyl)phenyl 2-(1389	CH2NH-	3-pyridyl	2-(N-(cyclobutyl)
1590 CH2NH- SO2CH3 SO2	* *		SO2CH3		
1391 CH2NH- 3-pyridyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 3-(methylaminosulfonyl)phenyl 3-(methylaminosulfonyl)phenyl 3-(methylaminomethyl)phenyl		1390	CH2NH-	3-pyridyl	2-(N-(cyclonentyl)
1392 CH2NH- SO2CH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 2-(15				aminomethyl)phenyl
1392 CH2NH- SO2CH3 So2		1391		3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)
20 1393 CH2NH- 2-pyrimidyl 2-(methylaminosulfonyl)phenyl SO2CH3 SO2CH3 1394 CH2NH- SO2CH3 1395 CH2NH- 2-pyrimidyl 2-(methylsulfonyl)phenyl 2-(methylsulfonyl)phenyl 2-(methylsulfonyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 30 1398 CH2NH- 2-pyrimidyl 2-methyl-1-imidazolyl 302CH3 1400 CH2NH- 2-pyrimidyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1-imidazolyl 35 SO2CH3 1401 CH2NH- 2-pyrimidyl 2-(dimethylaminomethyl)-1-imidazolyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cycloprotyl)-methyl)phenyl 2-(N-(cycloprotyl)-	mje i si da sijesime				methyl)nhenyl
2-(methylaminosulfonyl)phenyl SO2CH3 SO2CH3 1394 CH2NH- 2-pyrimidyl 2-(methylsulfonyl)phenyl SO2CH3 SO2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl SO2CH3 1395 CH2NH- 2-pyrimidyl 2-(N,N- dimethylaminomethyl)phenyl SO2CH3 1397 CH2NH- 2-pyrimidyl 2-(N-pyrrolidinylmethyl)phenyl SO2CH3 1398 CH2NH- 2-pyrimidyl 2-methyl-1-imidazolyl SO2CH3 1400 CH2NH- 2-pyrimidyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cycloprotyl)-methyl)aminomethyl)phenyl 2-(N-(cycloportyl)-methyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfon		1392		2-pyrimidyl	2-(aminosulfonyl)phenyl
SO2CH3	er i e e e e e e e e e e e e e e e e e e			_	
1394 CH2NH- 2-pyrimidyl 1-pyrrolidinocarbonyl SO2CH3	20	1393		2-pyrimidyl	2-(methylaminosulfonyl)phenyl
SO2CH3	and the state of			and the second	
1395 CH2NH- 2-pyrimidyl 2-(methylsulfonyl)phenyl 25 SO2CH3 1396 CH2NH- SO2CH3 dimethylaminomethyl)phenyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1-imidazolyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl	Aliver Indiana	1394		2-pyrimidyl	l-pyrrolidinocarbonyl
1396 CH2NH- 2-pyrimidyl 2-(N,N- dimethylaminomethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-(pyrlonidyl)phenyl 2-(methylaminomethyl)phenyl	مدر محدق وربان	47			
1396		1393		2-pyrimidyl	2-(methylsulfonyl)phenyl
SO2CH3	23	1206			
1397 CH2NH- 2-pyrimidyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinylmethyl)phenyl 2-(N-pyrrolidinyl) 2-(methyl-1-imidazolyl 2-(dimethylaminomethyl)-1-imidazolyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopropyl-methyl)aminomethyl)phenyl 2-(N-(cyclopentyl)-methyl)phenyl 2-(N-(cyclopentyl)-methyl)phenyl 2-(N-(cyclopentyl)-methyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)-methyl)phenyl 2-(n-(3-hydroxypyrrolidinyl)-methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylamin	1488 Light	1390		2-pyrimidyl	
SO2CH3 2-pyrimidyl 2-(N-pyrrolidinylmethyl)phenyl 2-(methylaminosylfonylmethyl)phenyl 2-(methylaminosylfonylmethyl)phenyl 2-(methylaminosylfonylmethyl)phenyl 2-(methylaminosylfonylmethyl)phenyl 2-(methylaminosylfonylmethyl)phenyl 2-(methylaminosylfonylmethyl)phenyl 2-(methylaminosylfonylmethyl)phenyl 2-(methylaminosylfonylmethylmethylphenylmethyl)phenyl 2-(methylaminosylfonylmethyl)phenyl 2-(methylaminosylfonylmethy		1307			dimethylaminomethyl)phenyl
1398 CH2NH- 2-pyrimidyl 1-methyl-2-imidazolyl SO2CH3 1399 CH2NH- 2-pyrimidyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclopropyl- methyl)phenyl 2-(N-(cyclopropyl- methyl)phenyl 2-(N-(cyclopropyl- aminomethyl)phenyl 2-(N-(cyclopropyl- aminomethyl)phenyl 2-(N-(cyclopropyl- aminomethyl)phenyl 2-(N-(cyclopropyl- aminomethyl)phenyl 2-(N-(cyclopropyl- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methyl)phenyl 2-(methyl)ph	the state of the s	1397		2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
1399 CH2NH- 2-pyrimidyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylami	3.0	1398		2	·
1399 CH2NH- 2-pyrimidyl 2-methyl-1-imidazolyl		1370		2-pyrimidyi	l-methyl-2-imidazolyl
1400 CH2NH- 2-pyrimidyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylami	•	1399		2	
1400 CH2NH- 2-pyrimidyl 2-(dimethylaminomethyl)-1- imidazolyl 2-(N-(cyclopropyl- methyl)aminomethyl)phenyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl				2-pyrimidyi	2-methyl-1-imidazolyl
35 SO2CH3 1401 CH2NH- 2-pyrimidyl 2-(N-(cyclopropyl-methyl)phenyl SO2CH3 1402 CH2NH- 2-pyrimidyl 2-(N-(cyclobutyl)-aminomethyl)phenyl SO2CH3 1404 CH2NH- 2-pyrimidyl 2-(N-(cyclopentyl)-aminomethyl)phenyl SO2CH3 1405 CH2NH- 5-pyrimidyl 2-(N-(3-hydroxypyrrolidinyl)-methyl)phenyl 1405 CH2NH- 5-pyrimidyl 2-(aminosulfonyl)phenyl 1406 CH2NH- 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 2-(methylaminomethyl)-1-imidazolyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cycloputyl)-methyl)phenyl 2-(N-(cycloputyl)-methyl)phenyl 2-(N-(cycloputyl)-methyl)phenyl 2-(N-(cycloputyl)-methyl)phenyl 2-(N-(cycloputyl)-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cycloputyl)-methyl)phenyl		1400		2-preimidul	0.49
1401 CH2NH- 2-pyrimidyl 2-(N-(cyclopropyl-methyl)minomethyl)phenyl 1402 CH2NH- 2-pyrimidyl 2-(N-(cyclobutyl)-aminomethyl)phenyl 40 1403 CH2NH- 2-pyrimidyl 2-(N-(cyclopentyl)-aminomethyl)phenyl SO2CH3 2-(N-(cyclopentyl)-aminomethyl)phenyl 2-(N-(cyclopentyl)-aminomethyl)phenyl 2-(N-(cyclopentyl)-aminomethyl)phenyl 2-(N-(cyclopentyl)-methyl)phenyl 2-(N-(cyclopentyl)-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cyclopropyl-methyl)phenyl 2-(N-(cycloputyl)-methyl)phenyl 2-(N-(cy	35			2-pyrningyr	2-(dimethylaminomethyl)-1-
SO2CH3 1402 CH2NH- 2-pyrimidyl SO2CH3 40 1403 CH2NH- 2-pyrimidyl SO2CH3 1404 CH2NH- 2-pyrimidyl SO2CH3 1405 CH2NH- 5-pyrimidyl SO2CH3 1406 CH2NH- 5-pyrimidyl 2-(N-(cyclobutyl)- aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl		1401		2-nyrimidyl	
1402 CH2NH- 2-pyrimidyl 2-(N-(cyclobutyl)- SO2CH3 1404 CH2NH- 2-pyrimidyl 2-(N-(cyclopentyl)- SO2CH3 1405 CH2NH- 5-pyrimidyl 2-(N-(3-hydroxypyrrolidinyl)- SO2CH3 1406 CH2NH- 5-pyrimidyl 2-(aminosulfonyl)phenyl 2-(methyl)aminomethyl)phenyl 2-(N-(cyclopentyl)- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(methyl)aminomethyl)phenyl				- pyrimayi	
SO2CH3 2-(N-(cyclobuty))- aminomethyl)phenyl 2-(N-(cyclopentyl))- aminomethyl)phenyl 2-(N-(cyclopentyl))- aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl))- methyl)phenyl 2-(methyl)phenyl 2-(aminosulfonyl)phenyl 2-(aminosulfonyl)phenyl 2-(methyl)phenyl		1402		2-nyrimidyl	methyl)aminomethyl)phenyl
40 1403 CH2NH- 2-pyrimidyl 2-(N-(cyclopentyl)- SO2CH3 aminomethyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl				- pyrimayi	
SO2CH3 1404 CH2NH- 2-pyrimidyl SO2CH3 1405 CH2NH- 5-pyrimidyl SO2CH3 1406 CH2NH- 5-pyrimidyl 2-(N-(3-hydroxypyrrolidinyl)- methyl)phenyl 2-(aminosułfonyl)phenyl 2-(methylaminosulfonyl)phenyl	40	1403		2-pyrimidyl	aminomethyl)phenyl
1404 CH2NH- 2-pyrimidyl 2-(N-(3-hydroxypyrrolidinyl)- SO2CH3 methyl)phenyl 1405 CH2NH- 5-pyrimidyl 2-(aminosulfonyl)phenyl SO2CH3 1406 CH2NH- 5-pyrimidyl 2-(methylaminosulfonyl)phenyl				- Pjimidji	2-(IN-(cyclopentyl)-
SO2CH3 methyl)phenyl 1405 CH2NH- 5-pyrimidyl 2-(aminosulfonyl)phenyl 45 SO2CH3 1406 CH2NH- 5-pyrimidyl 2-(methylaminosulfonyl)phenyl	•	1404		2-pyrimidyl	aminomethyl)phenyl
1405 CH2NH- 5-pyrimidyl 2-(aminosulfonyl)phenyl 45 SO2CH3 1406 CH2NH- 5-pyrimidyl 2-(methylaminosulfonyl)phenyl				- FJ	
45 SO2CH3 1406 CH2NH- 5-pyrimidyl 2-(methylaminasulfanyl)-hand		1405		5-pyrimidyl	inemyi)phenyi
1406 CH2NH- 5-pyrimidyl 2-(methylaminosulfonyl)-honyl	45			- PJ	2-(amnosurionyl)phenyl
		1406		5-pyrimidyl	2-(mothyla-in-s-10 n
				, .	2-(methylaminosulfonyl)phenyl

	1407	CH2NH- SO2CH3	5-pyrimidyl	1-pyrrolidinocarbonyl
	1408	CH2NH- SO2CH3	5-pyrimidyl	2-(methylsulfonyl)phenyl
5	1409	CH2NH- SO2CH3	5-pyrimidyl	2-(N,N- dimethylaminomethyl)phenyl
	1410	CH2NH- SO2CH3	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
10	1411	CH2NH- SO2CH3	5-pyrimidyl	1-methyl-2-imidazolyl
	1412	CH2NH- SO2CH3	5-pyrimidyl	2-methyl-1-imidazolyl
	1413	CH2NH- SO2CH3	5-pyrimidyl	2-(dimethylaminomethyl)-1- imidazolyl
15	1414	CH2NH- SO2CH3	5-pyrimidyl	2-(N-(cyclopropyl- methyl)aminomethyl)phenyl
	1415	CH2NH- SO2CH3	5-pyrimidyl	2-(N-(cyclobutyl)- aminomethyl)phenyl
20	1416	CH2NH- SO2CH3	5-pyrimidyl	2-(N-(cyclopentyl)- aminomethyl)phenyl
		CH2NH- SO2CH3	5-pyrimidyl 100 see 200	2-(N-(3-hydroxypyrrolidinyl)-
·	1418	CH2NH- SO2CH3	2-Cl-phenyl	
25	1419	CH2NH- SO2CH3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
•	1420	CH2NH-	2-Cl-phenyl	1-pyrrolidinocarbonyl
30	1421	CH2NH- SO2CH3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	1422	CH2NH- SO2CH3	2-Cl-phenyl	2-(N,N-dimethylaminomethyl)phenyl
35	1423 1424	CH2NH- SO2CH3 CH2NH-	2-Cl-phenyl	2-(N-pyrrolidinylmethyl)phenyl
33	1425	SO2CH3 CH2NH-	2-Cl-phenyl 2-Cl-phenyl	1-methyl-2-imidazolyl
	1426	SO2CH3 CH2NH-	2-CI-phenyl	2-methyl-1-imidazolyl 2-(dimethylaminomethyl)-1-
40		SO2CH3		imidazolyl
	1427	CH2NH- SO2CH3	2-Cl-phenyl	2-(N-(cyclopropyl- methyl)aminomethyl)phenyl
	1428	CH2NH- SO2CH3	2-Cl-phenyl	2-(N-(cyclobutyl)- aminomethyl)phenyl
45		CH2NH- SO2CH3	2-Cl-phenyl	2-(N-(cyclopentyl)- aminomethyl)phenyl
	1430	CH2NH-	2-Cl-phenyl	2-(N-(3-hydroxypyrrolidinyl)-

		SO2CH3		
	1431	CH2NH-	2-F-phenyl	methyl)phenyl
	1.51	SO2CH3	2-r-phenyr	2-(aminosulfonyl)phenyl
	1432	CH2NH-	2 E aband	
5	1432		2-F-phenyl	2-(methylaminosulfonyl)phenyl
5	1.422	SO2CH3	27.	
	1433	CH2NH-	2-F-phenyl	1-pyrrolidinocarbonyl
		SO2CH3		
	1434	CH2NH-	2-F-phenyl	2-(methylsulfonyl)phenyl
		SO2CH3	·	
10	1435	CH2NH-	2-F-phenyl	2-(N,N-
•		SO2CH3		dimethylaminomethyl)phenyl
•	1436	CH2NH-	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
		SO2CH3	-	, 1,,,,, ., ., ., ., ., .
	1437	CH2NH-	2-F-phenyl	1-methyl-2-imidazolyl
15		SO2CH3	•	
•	1438	CH2NH-	2-F-phenyl	2-methyl-1-imidazolyl
O		SO2CH3		2 Michigi-1-imidazoryi
	1439	CH2NH-	2-F-phenyl	2-(dimethylaminomethyl)-1-
		SO2CH3	2 1 phonyi	
	1440		2-F-phenyl	imidazolyl
7.7		SO2CH3		2-(N-(cyclopropyl-
Markey Sugar		CH2NH-	2-F-phenyl	methyl)aminomethyl)phenyl
ार्ग के हैं है है है है है है है है	****	SO2CH3	z-r-phenyr	2-(N-(cyclobutyl)-
	1442	CH2NH-	2 F = 5 1	aminomethyl)phenyl
25	1772	SO2CH3	2-F-phenyl	2-(N-(cyclopentyl)-
. 23	1443		25.1	aminomethyl)phenyl
	1773	CH2NH-	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
	1444	SO2CH3	• • • • • • • • • • • • • • • • • • • •	methyl)phenyl
19944 (W) - 1 - 1	1444	CH2NH-	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
2.0	1445	SO2CH3		
30	1445	CH2NH-	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
		SO2CH3		•
	1446	CH2NH-	2,6-diF-phenyl	l-pyrrolidinocarbonyl
		SO2CH3		
	1447	CH2NH-	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
35		SO2CH3		
	1448	CH2NH-	2,6-diF-phenyl	2-(N,N-
		SO2CH3		dimethylaminomethyl)phenyl
	1449	CH2NH-	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
		SO2CH3		(P)
40	1450	CH2NH-	2.6-diF-phenyl	l-methyl-2-imidazolyl
		SO2CH3	1	
	1451	CH2NH-	2,6-diF-phenyl	2-methyl-1-imidazolyl
		SO2CH3	-, puony.	2-metry 1-minuazory
	1452	CH2NH-	2,6-diF-phenyl	2-(dimethylamina-sel-d) 1
45	_	SO2CH3	-,- wir pitottyt	2-(dimethylaminomethyl)-1-
	1453	CH2NH-	2,6-diF-phenyl	imidazolyl
		SO2CH3	-,- air -pitchyi	2-(N-(cyclopropyl-
				methyl)aminomethyl)phenyl

	1454	CH2NH-	2.6-diF-phenyl	2-(N-(cyclobutyl)-
		SO2CH3		aminomethyl)phenyl
	1455	CH2NH-	2,6-diF-phenyl	2-(N-(cyclopentyi)-
		SO2CH3		aminomethyl)phenyl
5	1456	CH2NH-	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
		SO2CH3		methyl)phenyl

Table 2

Z is C(O)NH or C(O)CH

5	Ex#	A	В
	1	phenyl	2-(aminosulfonyl)phenyl
	2	phenyl	2-(methylaminosulfonyl)phenyl
	3	phenyl	1-pyrrolidinocarbonyl
	4	ph en yl	2-(methylsulfonyl)phenyl
10	5	phenyl	2-(N,N-
			dimethylaminomethyl)phenyl
	6	phenyl	2-(N-pyrrolidinylmethyl)phenyl
	7	phenyl	I-methyl-2-imidazolyl
	8	phenyl	2-methyl-1-imidazolyl
15	9	phenyi	2-(dimethylaminomethyl)-1-
			imidazolyl
	10	phenyl	2-(N-(cyclopropyl-
		•	methyl)aminomethyl)phenyl
	11 '	phenyl	2-(N-(cyclobutyl)-
20			aminomethyl)phenyl
	12	phenyl	2-(N-(cyclopentyl)-
			aminomethyl)phenyl
	13	phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			methyl)phenyl

	14	2-pyridyl	2-(aminosulfonyl)phenyl
	15	2-pyridyl	2-(methylaminosulfonyl)phenyl
	16	2-pyridyl	1-pyrrolidinocarbonyl
	17	2-pyridyl	2-(methylsulfonyl)phenyl
5	18	2-pyridyl	2-(Mcdry isdiffory) pheny i 2-(N,N-
•		2-pyridy i	
	19	2-pyridyl	dimethylaminomethyl)phenyl
	20		2-(N-pyrrolidinylmethyl)phenyl
	21	2-pyridyl	1-methyl-2-imidazolyl
	22	2-pyridyl	2-methyl-1-imidazolyl
10	2.2	2-pyridyl	2-(dimethylaminomethyl)-1-
			imidazolyl
	23	2-pyridyl	2-(N-(cyclopropyl-
		_	methyl)aminomethyl)phenyl
	24	2-pyridyl	2-(N-(cyclobutyl)-
15			aminomethyl)phenyl
	25	2-pyridyl	2-(N-(cyclopentyl)-
			aminomethyl)phenyl
	26	2-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
		•	methyl)phenyl
20	27	3-pyridyl	2-(aminosulfonyl)phenyl
	28	3-pyridyl	2-(methylaminosulfonyl)phenyl
	29	3-pyridyl	1-pyrrolidinocarbonyl
••	30	3-pyridyl	2-(methylsulfonyl)phenyl
	31	3-pyridyl	2-(N,N-
25		1,3-3-3-	dimethylaminomethyl)phenyl
	32	3-pyridyl	2-(N-pyrrolidinylmethyl)phenyl
	33	3-pyridyl	l-methyl-2-imidazolyl
-:	34	3-pyridyl	2-methyl-1-imidazolyl
	35	3-pyridyl	2-(dimethylaminomethyl)-1-
30		, o pyey.	imidazolyl
	36	3-pyridyl	2-(N-(cyclopropyl-
		·	methyl)aminomethyl)phenyl
	37	3-pyridyl	2-(N-(cyclobutyl)-
	•	э-рунцуі	aminomethyl)phenyl
35	38	3-pyridyl	
	50	3-pyridyi	2-(N-(cyclopentyl)-
	39	3 monidad	aminomethyl)phenyl
	37	3-pyridyl	2-(N-(3-hydroxypyrrolidinyl)-
	40	2	methyl)phenyl
40	41	2-pyrimidyl	2-(aminosulfonyl)phenyl
40	42	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
		2-pyrimidyl	1-pyrrolidinocarbonyl
	43	2-pyrimidyl	2-(methylsulfonyl)phenyl
	44	2-pyrimidyl	2-(N,N-
	4.5	_	dimethylaminomethyl)phenyl
45	45	2-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	46	2-pyrimidyl	1-methyl-2-imidazolyl
	47	2-pyrimidyl	2-methyl-1-imidazolyl
			•

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	48	2-pyrimidyl	2-(dimethylaminomethyl)-1-
			imidazolyl
	49	2-pyrimidyl	2-(N-(cyclopropyl-
			methyl)aminomethyl)phenyl
5	50	2-pyrimidyl	2-(N-(cyclobutyl)-
			aminomethyl)phenyl
	51	2-pyrimidyl	2-(N-(cyclopentyl)-
			aminomethyl)phenyl
	52	2-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
10			methyl)phenyl
	53	5-pyrimidyl	2-(aminosulfonyl)phenyl
	54	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	55	5-pyrimid y l	l-pyrrolidinocarbonyl
	56	5-pyrimidyl	2-(methylsulfonyl)phenyl
15	57	5-pyrimidyl	2-(N,N-
			dimethylaminomethyl)phenyl
	58 ·	5-pyrimidyl	2-(N-pyrrolidinylmethyl)phenyl
	59	5-pyrimidyl	l-methyl-2-imidazolyl
	60	5-pyrimidyl	2-methyl-1-imidazolyl
20	61	5-pyrimidyl	2-(dimethylaminomethyl)-1-
• •	1. (\$40, 50°, 0		imidazolyl
1.	62	5-pyrimidyl	2-(N-(cyclopropyl-
	15.7%		methyl)aminomethyl)phenyl
	63	5-pyrimidyl	2-(N-(cyclobutyl)-
25			aminomethyl)phenyl
	64	5-pyrimidyl	2-(N-(cyclopentyl)-
	. ** 1.***. *		aminomethyl)phenyl
• •	65	5-pyrimidyl	2-(N-(3-hydroxypyrrolidinyl)-
			methyl)phenyl
30	66	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	67	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	68	2-Cl-phenyl	l-pyrrolidinocarbonyl
	69	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	70	2-Cl-phenyl	2-(N,N-
35			dimethylaminomethyl)phenyl
	71	2-Cl-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	72	2-Cl-phenyl	l-methyl-2-imidazolyl
	73	2-Cl-phenyl	2-methyl-1-imidazolyl
	74	2-Cl-phenyl	2-(dimethylaminomethyl)-1-
40			imidazolyl
	75	2-Cl-phenyl	2-(N-(cyclopropyl-
			methyl)aminomethyl)phenyl
	76 ·	2-Cl-phenyl	2-(N-(cyclobutyl)-
		•	aminomethyl)phenyl
45	77	2-Cl-phenyl	2-(N-(cyclopentyl)-
		£y	aminomethyl)phenyl
	78	2-Cl-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			- (- , ()

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			methyl)phenyl
	79	2-F-phenyl	2-(aminosulfonyl)phenyl
	80	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	81	2-F-phenyl	1-pyrrolidinocarbonyl
5	· 82	2-F-phenyl	2-(methylsulfonyl)phenyl
	83	2-F-phenyl	2-(N,N-
			dimethylaminomethyl)phenyl
·	84	2-F-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	85	2-F-phenyl	1-methyl-2-imidazolyl
10	86	2-F-phenyl	2-methyl-1-imidazolyl
	87	2-F-phenyl	2-(dimethylaminomethyl)-1-
			imidazolyl
	88	2-F-phenyl	2-(N-(cyclopropyl-
			methyl)aminomethyl)phenyl
15	89	2-F-phenyl	2-(N-(cyclobutyl)-
			aminomethyl)phenyl
•	90	2-F-phenyl	2-(N-(cyclopentyl)-
			aminomethyl)phenyl
	91	2-F-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
20			methyl)phenyl
	92	2.6-diF-phenyl	2-(aminosulfonyl)phenyl
	93	2,0-dir-phenyl	2-(methylaminosulfonyl)phenyl
	94	2,6-diF-phenyl	l-pyrrolidinocarbonyl
	95	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
25	96	2,6-diF-phenyl	2-(N,N-
	07		dimethylaminomethyl)phenyl
•	97 98	2,6-diF-phenyl	2-(N-pyrrolidinylmethyl)phenyl
	98	2,6-diF-phenyl	l-methyl-2-imidazolyl
30		2,6-diF-phenyl	2-methyl-1-imidazolyl
30	100	2.6-diF-phenyl	2-(dimethylaminomethyl)-1-
	101	26 277	imidazolyl
	101	2,6-diF-phenyl	2-(N-(cyclopropy)-
	102	26.00	methyl)aminomethyl)phenyl
35	102	2,6-diF-phenyl	2-(N-(cyclobutyl)-
33	103	2647	aminomethyl)phenyl
	103	2,6-diF-phenyl	2-(N-(cyclopentyl)-
	104	26 117 1	aminomethyl)phenyl
	10-7	2,6-diF-phenyl	2-(N-(3-hydroxypyrrolidinyl)-
			methyl)phenyl
40			

Obviously, numerous modifications and variations of the present invention are possible in light of the above teachings. It is therefore to be understood that within the scope of the appended claims, the invention may be practiced otherwise that as specifically described herein.

WHAT IS CLAIMED IS:

1. A compound of formula I:

- ring D is selected from -(CH₂)₃-, -CH₂CH=CH-, -CH₂N=CH-, and a 5 membered aromatic system containing from 0-2 heteroatoms selected from the group N, O, and S, provided that from 0-1 O and S atoms are present;
- ring D is substituted with 0-2 R, provided that when ring D is unsubstituted, it contains at least one heteroatom;

E is selected from phenyl, pyridyl, pyrimidyl, pyrazinyl, and pyridazinyl, substituted with 0-1 R;

15

- R is selected from Cl, F, Br, I, OH, C_{1-3} alkoxy, NH₂, NH(C_{1-3} alkyl), N(C_{1-3} alkyl)₂, CH₂NH₂, CH₂NH(C_{1-3} alkyl), CH₂N(C_{1-3} alkyl)₂, CH₂CH₂NH₂, CH₂CH₂NH(C_{1-3} alkyl), and CH₂CH₂N(C_{1-3} alkyl)₂;
- 20 M is selected from the group:

J is O or S;

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Ja is NH or NR la;

 $Z \text{ is selected from } (CR^8R^9)_{1-4}, (CR^8R^9)_rO(CR^8R^9)_r, (CR^8R^9)_rNR^3(CR^8R^9)_r, \\ (CR^8R^9)_rC(O)(CR^8R^9)_r, (CR^8R^9)_rC(O)O(CR^8R^9)_r, (CR^8R^9)_rOC(O)(CR^8R^9)_r, \\ (CR^8R^9)_rC(O)NR^3(CR^8R^9)_r, (CR^8R^9)_rNR^3C(O)(CR^8R^9)_r, \\ (CR^8R^9)_rNR^3(CR^8R^9)_r, (CR^8R^9)_rNR^3(CR^9)_r, \\ (CR^8R^9)_rNR^3(CR^9)_r, (CR^8R^9)_r, \\ (CR^8R^9)_rNR^3(CR^9)_r, (CR^8R^9)_r, (CR^9)_rNR^3(CR^9)_r, \\ (CR^9R^9)_rNR^3(CR^9)_r, (CR^9R^9)_r, (CR^9R^9)_r, \\ (CR^9R^9)_rNR^3(CR^9)_r, (CR^9R^9)_r, (CR^9R^9)_r, (CR^9R^9)_r, \\ (CR^9R^9)_rNR^9(R^9)_r, (CR^9R^9)_r, (CR^9R^9)_r,$

 $(CR^8R^9)_rOC(O)O(CR^8R^9)_r$, $(CH_2)_rOC(O)NR^3(CR^8R^9)_r$, $(CR^8R^9)_rNR^3C(O)O(CR^8R^9)_r$, $(CH_2)_rNR^3C(O)NR^3(CR^8R^9)_r$, $(CR^8R^9)_rS(O)_p(CR^8R^9)_r$, $(CCR^8R^9)_rSO_2NR^3(CR^8R^9)_r$, $(CR^8R^9)_rNR^3SO_2(CR^8R^9)_r$, and $(CR^8R^9)_rNR^3SO_2NR^3(CR^8R^9)_r$, provided that Z does not form a N-N, N-O, N-S, NCH₂N, NCH₂O, or NCH₂S bond with the groups to which Z is attached;

 R^{1a} is selected from H, -(CH₂)_r-R¹', -CH=CH-R¹', NHCH₂R¹", OCH₂R¹", SCH₂R¹", NH(CH₂)₂(CH₂)_tR¹', O(CH₂)₂(CH₂)_tR¹', and S(CH₂)₂(CH₂)_tR¹';

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- R¹ is selected from H, C₁₋₃ alkyl, F, Cl, Br, I, -CN, -CHO, (CF₂)_rCF₃, (CH₂)_rOR², NR²R^{2a}, C(O)R^{2c}, OC(O)R², (CF₂)_rCO₂R^{2c}, S(O)_pR^{2b}, NR²(CH₂)_rOR², C(=NR^{2c})NR²R^{2a}, NR²C(O)R^{2b}, NR²C(O)NHR^{2b}, NR²C(O)₂R^{2a}, OC(O)NR²aR^{2b}, C(O)NR²R^{2a}, C(O)NR²(CH₂)_rOR², SO₂NR²R^{2a}, NR²SO₂R^{2b}, C₃₋₆ carbocyclic residue substituted with 0-2 R⁴, and 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R⁴;
- $R^{1"}$ is selected from H, CH(CH₂OR²)₂, C(O)R^{2c}, C(O)NR²R^{2a}, S(O)R^{2b}, S(O)₂R^{2b}, and SO₂NR²R^{2a};
 - R², at each occurrence, is selected from H, CF₃, C₁₋₆ alkyl, benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};
 - R^{2a}, at each occurrence, is selected from H, CF₃, C₁₋₆ alkyl, benzyl, C₃₋₆ cycloalkylmethyl substituted with 0-2 R^{4b}, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};
 - R^{2b}, at each occurrence, is selected from CF₃, C₁₋₄ alkoxy, C₁₋₆ alkyl, benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};

R^{2c}, at each occurrence, is selected from CF₃, OH, C₁₋₄ alkoxy, C₁₋₆ alkyl, benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};

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- alternatively, R² and R^{2a} combine to form a 5 or 6 membered saturated, partially saturated or unsaturated ring substituted with 0-2 R^{4b} which contains from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- alternatively, R² and R^{2a}, together with the atom to which they are attached, combine to form a 5 or 6 membered saturated, partially saturated or unsaturated ring substituted with 0-2 R^{4b} and containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- 15 R³, at each occurrence, is selected from H, C₁₋₄ alkyl, and phenyl;
 - R^{3a}, at each occurrence, is selected from H, C₁₋₄ alkyl, and phenyl;
 - R3b, at each occurrence, is selected from H, C1-4 alkyl, and phenyl;

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R^{3c}, at each occurrence, is selected from C₁₋₄ alkyl, and phenyl;

A is selected from:

C₃₋₁₀ carbocyclic residue substituted with 0-2 R⁴, and

5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R⁴;

B is selected from:

X-Y, NR^2R^{2a} , $C(=NR^2)NR^2R^{2a}$, $NR^2C(=NR^2)NR^2R^{2a}$.

C₃₋₁₀ carbocyclic residue substituted with 0-2 R^{4a}, and

5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a};

X is selected from C_{1-4} alkylene, $-CR^2(CR^2R^{2b})(CH_2)_{t-}$, -C(0)-, $-C(=NR^{1})$ -,

- $-CR^{2}(NR^{1}R^{2})-$, $-CR^{2}(OR^{2})-$, $-CR^{2}(SR^{2})-$, $-C(O)CR^{2}R^{2a}-$, $-CR^{2}R^{2a}C(O)$, $-S(O)_{p}-$,
- $-S(O)_pCR^2R^{2a}$, $-CR^2R^{2a}S(O)_p$, $-S(O)_2NR^2$, $-NR^2S(O)_2$, $-NR^2S(O)_2CR^2R^{2a}$.
- $-CR^2R^{2a}S(O)_2NR^2-$, $-NR^2S(O)_2NR^2-$, $-C(O)NR^2-$, $-NR^2C(O)-$,
- -C(O)NR²CR²R^{2a}-, -NR²C(O)CR²R^{2a}-, -CR²R^{2a}C(O)NR²-, -CR²R^{2a}NR²C(O)-,

-NR²C(O)O-. -OC(O)NR²-. -NR²C(O)NR²-. -NR²-. -NR²CR²R²a-. -CR²R²aNR²-. O, -CR²R²aO-. and -OCR²R²a-:

Y is selected from:

- (CH₂)_rNR²R^{2a}, provided that X-Y do not form a N-N. O-N, or S-N bond,

 C₃₋₁₀ carbocyclic residue substituted with 0-2 R^{4a}, and

 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a};
- R⁴, at each occurrence, is selected from H, =O, (CH₂)_rOR², F, Cl, Br, I, C₁₋₄ alkyl, -CN, NO₂, (CH₂)_rNR²R^{2a}, (CH₂)_rC(O)R^{2c}, NR²C(O)R^{2b}, C(O)NR²R^{2a}, NR²C(O)NR²R^{2a}, C(=NS(O)₂R⁵)NR²R^{2a}, NHC(=NR²)NR²R^{2a}, C(O)NHC(=NR²)NR²R^{2a}, SO₂NR²R^{2a}, NR²SO₂NR²R^{2a}, NR²SO₂-C₁₋₄ alkyl, NR²SO₂R⁵, S(O)_pR⁵, (CF₂)_rCF₃, NHCH₂R¹", OCH₂R¹", SCH₂R¹", N(CH₂)₂(CH₂)_tR¹', O(CH₂)₂(CH₂)_tR¹', and S(CH₂)₂(CH₂)_tR¹'.
 - alternatively, one R⁴ is a 5-6 membered aromatic heterocycle containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- R^{4a}, at each occurrence, is selected from H, =O, (CH₂)_rOR², (CH₂)_r-F, (CH₂)_r-Br, (CH₂)_r-Cl, Cl, Br, F, I, C₁₋₄ alkyl, -CN, NO₂, (CH₂)_rNR²R^{2a}, (CH₂)_rC(O)R^{2c}, NR²C(O)R^{2b}, C(O)NR²R^{2a}, C(O)NH(CH₂)₂NR²R^{2a}, NR²C(O)NR²R^{2a}, C(=NR²)NR²R^{2a}, NHC(=NR²)NR²R^{2a}, SO₂NR²R^{2a}, NR²SO₂NR²R^{2a}, NR²SO₂-C₁₋₄ alkyl, C(O)NHSO₂-C₁₋₄ alkyl, NR²SO₂R⁵, S(O)_pR⁵, and (CF₂)_rCF₃;
 - alternatively, one R^{4a} is a 5-6 membered aromatic heterocycle containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-1 R⁵;
- R^{4b}, at each occurrence, is selected from H, =O, (CH₂)_TOR³, F, Cl, Br, I, C₁₋₄ alkyl, -CN, NO₂, (CH₂)_TNR³R^{3a}, (CH₂)_TC(O)R³, (CH₂)_TC(O)OR^{3c}, NR³C(O)R^{3a}, C(O)NR³R^{3a}, NR³C(O)NR³R^{3a}, C(=NR³)NR³R^{3a}, NR³C(=NR³)NR³R^{3a}, SO₂NR³R^{3a}, NR³SO₂NR³R^{3a}, NR³SO₂CF₃, NR³SO₂-phenyl, S(O)_pCF₃, S(O)_p-C₁₋₄ alkyl, S(O)_p-phenyl, and (CF₂)_TCF₃;
 - R⁵, at each occurrence, is selected from CF₃, C₁₋₆ alkyl, phenyl substituted with 0-2 R⁶, and benzyl substituted with 0-2 R⁶;

R6, at each occurrence, is selected from H, OH, (CH2)rOR2, halo, C1-4 alkyl, CN, NO2, (CH₂)_rNR²R^{2a},(CH₂)_rC(O)R^{2b}, NR²C(O)R^{2b}, NR²C(O)NR²R^{2a}, C(=NH)NH₂, NHC(=NH)NH₂, $SO_2NR^2R^{2a}$, $NR^2SO_2NR^2R^{2a}$, and $NR^2SO_2C_{1-4}$ alkyl;

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R⁷, at each occurrence, is selected from H, OH, C₁₋₆ alkyl, C₁₋₆ alkylcarbonyl, C₁₋₆ alkoxy, C₁₋₄ alkoxycarbonyl, (CH₂)_n-phenyl, C₆₋₁₀ aryloxy, C₆₋₁₀ aryloxycarbonyl, C₆₋₁₀ arylmethylcarbonyl, C₁₋₄ alkylcarbonyloxy C₁₋₄ alkoxycarbonyl, C₆₋₁₀ arylcarbonyloxy C₁₋₄ alkoxycarbonyl, C₁₋₆ alkylaminocarbonyl, phenylaminocarbonyl, and phenyl C1-4 alkoxycarbonyl;

R8, at each occurrence, is selected from H, C₁₋₆ alkyl and (CH₂)_n-phenyl;

alternatively, R7 and R8 combine to form a 5 or 6 membered saturated, ring which contains from 0-1 additional heteroatoms selected from the group consisting of N, 15

O, and S;

R⁹, at each occurrence, is selected from H, C₁₋₆ alkyl and (CH₂)_n-phenyl;

20 n, at each occurrence, is selected from 0, 1, 2, and 3;

m, at each occurrence, is selected from 0, 1, and 2;

p, at each occurrence, is selected from 0, 1, and 2;

25

r, at each occurrence, is selected from 0, 1, 2, and 3:

s, at each occurrence, is selected from 0, 1, and 2; and

30 t, at each occurrence, is selected from 0, 1, 2, and 3.

2. A compound according to Claim 1, wherein the compound is selected from the group:

wherein, M is selected from the group:

R is selected from H, Cl, F, Br, I, (CH₂)_tOR³, C₁₋₄ alkyl, OCF₃, CF₃, C(O)NR⁷R⁸, and (CR⁸R⁹)_tNR⁷R⁸;

Z is selected from CH₂O, OCH₂, CH₂NH, NHCH₂, C(O), CH₂C(O), C(O)CH₂, NHC(O), C(O)NH, CH₂S(O)₂, S(O)₂(CH₂), SO₂NH, and NHSO₂, provided that Z does not form a N-N, N-O, NCH₂N, or NCH₂O bond with ring M or group A;

A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R⁴;

phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, benzofuranyl, benzothiofuranyl, indolyl, benzimidazolyl, benzoxazolyl, benzthiazolyl, indazolyl, benzisoxazolyl, benzisothiazolyl, and isoindazolyl;

B is selected from: H, Y, and X-Y;

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X is selected from C_{1-4} alkylene, -C(O)-, -C(=NR)-, $-CR^2(NR^2R^{2a})$ -, $-C(O)CR^2R^{2a}$ -, $-CR^2R^{2a}C(O)$, $-C(O)NR^2$ -, $-NR^2C(O)$ -, $-C(O)NR^2CR^2R^{2a}$ -, $-NR^2C(O)CR^2R^{2a}$ -.

-CR²R^{2a}C(O)NR²-, -CR²R^{2a}NR²C(O)-, -NR²C(O)NR²-, -NR²-, -NR²CR²R^{2a}-, -CR²R^{2a}NR²-, O, -CR²R^{2a}O-, and -OCR²R^{2a}-;

Y is NR²R^{2a} or CH₂NR²R^{2a}, provided that X-Y do not form a N-N or O-N bond;

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alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a}:

cylcopropyl, cyclopentyl, cyclohexyl, phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, isoxazolinyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, benzofuranyl, benzothiofuranyl, indolyl, benzimidazolyl, benzoxazolyl, benzthiazolyl, indazolyl, benzisoxazolyl, benzisothiazolyl, and isoindazolyl;

alternatively, Y is selected from the following bicyclic heteroaryl ring systems:

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K is selected from O, S, NH, and N.

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3. A compound according to Claim 2, wherein the compound is selected from the group:

M is selected from the group:

Z is C(O)CH₂ and CONH, provided that Z does not form a N-N bond with group A;

A is selected from phenyl, pyridyl, and pyrimidyl, and is substituted with 0-2 R4; and,

B is selected from Y, X-Y, phenyl, pyrrolidino, morpholino, 1,2,3-triazolyl, and imidazolyl, and is substituted with 0-1 R^{4a};

B is selected from: Y and X-Y;

5

X is selected from CH₂, -C(O)-, and O;

Y is NR²R^{2a} or CH₂NR²R^{2a}, provided that X-Y does not form an O-N bond;

5

alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a};

phenyl, piperazinyl, pyridyl, pyrimidyl, morpholinyl, pyrrolidinyl, imidazolyl, and 1,2,3-triazolyl;

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R², at each occurrence, is selected from H, CF₃, CH₃, benzyl, and phenyl;

R^{2a}, at each occurrence, is selected from H, CF₃, CH₃, CH(CH₃)₂, cyclopropylmethyl, benzyl, and phenyl;

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alternatively, R² and R^{2a} combine to form a ring system substituted with 0-2 R^{4b}, the ring system being selected from pyrrolidinyl, piperazinyl and morpholino;

R⁴, at each occurrence, is selected from OH, (CH₂)_rOR², Cl, F, C₁₋₄ alkyl, (CH₂)_rNR²R^{2a}, and (CF₂)_rCF₃;

 R^{4a} is selected from Cl, F, C_{1-4} alkyl, CF₃, (CH₂)_rNR²R^{2a}, S(O)_pR⁵, SO₂NR²R^{2a}, and 1-CF₃-tetrazol-2-yl;

25 R^{4b}, at each occurrence, is selected from OH, Cl, F, CH₃, and CF₃;

R⁵, at each occurrence, is selected from CF₃, C₁₋₆ alkyl, phenyl, and benzyl;

R⁷, at each occurrence, is selected from H, CH₃, and CH₂CH₃; and,

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R8, at each occurrence, is selected from H and CH3.

4. A compound according to Claim 3, wherein:

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M is selected from the group:

J is N;

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- 5 R^{1a} is absent or is -(CH₂)_r- R^{1} ';
 - R¹ is selected from H, C₁₋₃ alkyl, F, Cl, -CN, CF₃, (CH₂)_rOR², NR²R^{2a}, C(O)R^{2c}, OC(O)R², S(O)_pR^{2b}, NR²C(O)R^{2b}, C(O)NR²R^{2a}, SO₂NR²R^{2a}, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4a}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a};

A is selected from the group: phenyl, 2-pyridyl, 3-pyridyl, 2-pyrimidyl, 2-Cl-phenyl, 3-Cl-phenyl, 2-F-phenyl, 3-F-phenyl, 2-methylphenyl, 2-aminophenyl, and 2-methoxyphenyl; and,

B is selected from the group: 2-CF3-phenyl, 2-(aminosulfonyl)phenyl, 2(methylaminosulfonyl)phenyl, 2-(dimethylaminosulfonyl)phenyl, 1pyrrolidinocarbonyl, 2-(methylsulfonyl)phenyl, 2-(N,Ndimethylaminomethyl)phenyl, 2-(isopropylaminomethyl)phenyl, 2(cyclopropylaminomethyl)phenyl, 2-(N-pyrrolidinylmethyl)phenyl, 2-(3-hydroxyN-pyrrolidinylmethyl)phenyl, 4-morpholino, 2-(1'-CF3-tetrazol-2-yl)phenyl, 4morpholinocarbonyl, 1-methyl-2-imidazolyl, 2-methyl-1-imidazolyl, 5-methyl-1imidazolyl, 2-(N,N-dimethylaminomethyl)imidazolyl, 2-methylsulfonyl-1imidazolyl and, 5-methyl-1,2,3-triazolyl.

5. A pharmaceutical composition, comprising: a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound according to one of Claims 1-4 or a pharmaceutically acceptable salt thereof.

6. A method for treating or preventing a thromboembolic disorder, comprising: administering to a patient in need thereof a therapeutically effective amount of a compound according to one of Claims 1-4 or a pharmaceutically acceptable salt thereof.

- 7. Use of a compound according to one of Claims 1-4 in therapy.
- 8. Use of a compound according to one of Claims 1-4 for the manufacture of a medicament for the treatment of thrombosis or a disease mediated by factor Xa.
 - 9. A compound according to Table 1 or 2.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US99/30512

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07D 253/02, 257/02, 491/02, 498/02; A61K 31/44, 31/495, 31/53; A61P 9/00 US CL : 544/179, 182, 238, 333, 405; 546/115; 514/242, 252.04, 255.05, 256, 302 According to International Patent Classification (IPC) or to both national classification and iPC				
	LDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 544/179, 182, 238, 333, 405; 546/115; 514/242, 252.04, 255.05, 256, 302				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE				
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a		Relevant to claim No.	
A.P	WO 99/64423 A1 (DARWIN DISCOVERY LIMIT document, especially page 8. WO 99/20624 A1 (F.HOFFMANN-I.A ROCHE A		1-5, 7 and 9	
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Furthe	er documents are listed in the continuation of Box C.	See patent family annex.	· 0	
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"A" rincumen	date and not us conflict with the at notement defining the general state of the art which is not considered to be principle or theory underlying the		ERIOS DEL CUCA SO MODIFICADA SEC	
nt pertic	ericulty refevance "X" document of particular relevance; the claimed invention cannot be considered to involve an invention cannot be considered to involve an invention of particular relevance; the claimed invention cannot be considered to involve an invention of particular relevance; the claimed invention cannot be considered to involve an invention of particular relevance; the claimed invention cannot be considered to involve an invention cannot be considered to involve an invention cannot be considered to		claimed investion cannot be	
	nr which many throw doubts on priority claim(s) or which is cised to the publication date of another citation or other specual reason (as	"Y" document is taken alone "Y"	claimed investion cases be	
specified			o when the document is a documents, such combination a art	
"P" documen	n published prior to the international filling date but later than the date claimed	".e" document member of the same patent family		
Date of the actual completion of the international search Date of mailing of the international search 2 5 APR 2000			rch report	
03 April 2000 (03.04.2000)				
Name and mailing address of the ISA/IS Commissioner of Patents and Frademarks		Authorized officer		
lios PCT		Richard Raymon		
Washington, D.C. 20231		Telephone No. (703) 308-1235) ·	

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

Into trousi application No.
PCT/US99/30512

Box I Observations where certain claims were found unsearchable (Continuation	
This international report has not been established in respect of certain claims under Article 17	(2)(a) for the following reasons:
Claim Nos.: because they relate to subject matter not required to be searched by this Authority	ry, damely:
Claim Nos.: hecause they relate to parts of the international application that do not comply we such an extent that no meaningful international search can be carried out, specific	ith the prescribed requirements to ically:
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the sec 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of Item 2	of first sheet)
This International Searching Authority found multiple inventions in this international application Please See Continuation Sheet	m, as follows:
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and the second of the second o	
1. As all required additional search fees were timely paid by the applicant, this intersearchable claims.	mational search report covers all
 As all searchable claims could be searched without effort justifying an additional payment of any additional fee. 	fre, this Authority did not invite
As only some of the required additional search fees were timely paid by the appli report covers only those claims for which fees were paid, specifically claims Nos	cant, this international search
	•
1. No required additional search fees were timely paid by the applicant. Consequent is restricted to the invention first mentioned in the claims; it is covered by claims	lly, this international search report Nos.: 1-9 (in part)
Remark on Protest The additional search fees were accompanied by the applicant's	Africal
No protest accompanied the payment of additional search fees.	promote.

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US99/30512

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains only one nitrogen atom and ring D contains at least one oxygen atom.

Group II, claim(s) 1-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains only one nitrogen atom and ring D contains at least one sulfur atom.

Group III, claim(s) 1-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains only one nitrogen atom and ring D contains only one nitrogen atom.

Group IV, claim(s) 1-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains only one nitrogen atom and ring D contains only two nitrogen atoms.

Group V, claim(s) 1, 2 and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains only one nitrogen atom and ring D contains no hetero atoms.

Group VI, claim(s) I and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains two nitrogen atoms and ring D contains at least one oxygen atom.

Group VII, claim(s) 1 and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains two nitrogen atoms and ring D contains at least one sulfur atom.

Group VIII, claim(s) 1 and 5-9, drawn to compounds, compositions and method of use of the compounds of formula 1 where ring E contains two nitrogen atoms and ring D contains only one nitrogen atom.

Group IX, claim(s) 1 and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains two nitrogen atoms and ring D contains only two nitrogen atoms.

Group X, claim(s) 1 and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains two nitrogen atoms and ring D contains no hetero atoms.

Group XI, claim(s) I and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains no nitrogen atoms and ring D contains at least one oxygen atom.

Group XII, claim(s) I and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains no nitrogen atoms and ring D contains at least one sulfur atom.

Group XIII, claim(s) 1 and 5-9, drawn to compounds, compositions and method of use of the compounds of formula 1 where ring E contains no nitrogen atoms and ring D contains only one nitrogen atom.

Group XIV, claim(s) 1 and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains no nitrogen atoms and ring D contains only two nitrogen atoms.

Group XV, claim(s) 1 and 5-9, drawn to compounds, compositions and method of use of the compounds of formula I where ring E contains no nitrogen atoms and ring D contains no hetero atoms.

The inventions listed as Groups I-XV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The rings represented by D and E differ in the number of heteroatoms present in each ring, thus forming a magnitude of permutations which contain no common core.

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